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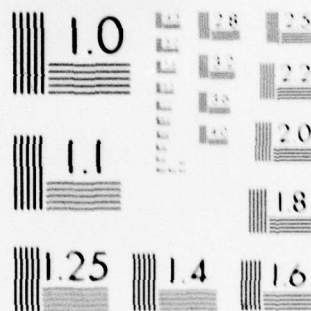
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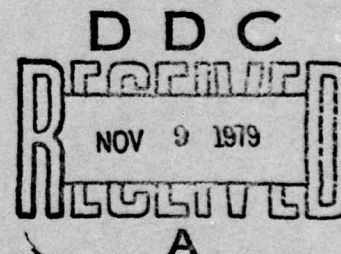
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1948-1962: An Author Index
of the Open Literature, with Abstracts

Harriett Porch

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10 Harriett Porch

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PREFACE

This index is a revision of RAND Memorandum RM-2800-1, Economics Department Publications, 1948-1962, October 1962, updating it to include publications issued by the Economics Department through the end of December 1962. Publications issued after this date appear in yearly supplements.

The present Memorandum follows the format established in RM-2800-1, being arranged by author rather than by serial number. It is believed that this arrangement will be welcomed by most users, as it is more familiar to research workers, scholars, and librarians generally. Because authors are usually specialists, an author index also serves as a specialized subject index, and the chronological arrangement of entries under each author's name makes it easy to find the author's latest or most complete study of a given subject. This chronological arrangement under the author's name also enables the user to find an entry by means of its serial number, and numerical finding lists are provided for this purpose.

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INTRODUCTION

WHAT THIS INDEX IS

This is an author index to RAND Economics Department publications available in the open literature. It extends in time from the Department's establishment in 1948 to December 31, 1962. It includes monographs (books and "Reports"), less formal monographs or working papers ("RAND Memoranda"), and journal-type professional contributions ("Papers"). Book reviews written by Economics Department authors and items now out of print are omitted.

Because this is a departmental index it excludes some related publications issued by other departments, but it includes the work of authors elsewhere in RAND if issued by the Economics Department.

A comprehensive guide to RAND open-literature publications can be found in the hardcover reference volume, Index of Selected Publications (August 1962), and in the index-abstracts journal Selected RAND Abstracts, published yearly since 1962.

The present index has as its basic reference list complete bibliographical entries with abstracts, arranged under authors' names. The authors' names are given alphabetically by surname, and the publications of each author are given under his name in a single chronological list (not in separate lists for each publications series). For publications with more than one author, full entries are given for the first-named author, and cross-references are given under the names of coauthors. As a reference aid, the names of all authors are given alphabetically in the Author List immediately preceding the Author Index.

HOW TO USE THIS INDEX

If the author's name is known, the user can turn immediately to the name in the Author Index, where he will find the various titles arranged chronologically by date of issue, each with abstract and bibliographical data. The pages of the Author Index are keyed at the top with the first two letters of the author's surname.

If the RAND publication number is known (but not the author) the author's name is found by referring to the Numerical Finding Lists. Here RAND publication numbers are given in numerical order, together with the surname of the first-named author, in separate lists for each of the three series: Reports (R's), RAND Memoranda (RM's), and Papers (P's). RAND studies published as books are listed alphabetically by title on pages 11 and 12.

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-ISA	Assistant Secretary of Defense/International Security Affairs
-PR	U.S. Air Force Project RAND
-NASA	National Aeronautics and Space Administration

* * *

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R-258	DeHaven	RM-815-1	Shabad	RM-1557	Bergson
R-333	Klein	RM-920-1	Bergson	RM-1561	Johnson
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R-367	Bergson	RM-951	Markowitz	RM-1592	McGuire
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		RM-1055	Gerschenkron	RM-1733	Kaplan
		RM-1071-1	Bernaut	RM-1778	Wolf
		RM-1085	Markowitz	RM-1809	Clark
		RM-1091	Marshall	RM-1821	Yeh
		RM-1112	Turgeon	RM-1872	Powell
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		RM-1121	Moorsteen	RM-1906	Kaplan
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P-2124	Bear	P-2468-1	Nidercorn		

Miscellaneous

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Listed below in alphabetical order by title are RAND studies which have been published as commercial books. Abstracts of the books are given under the first named author in the author section of this index. Books are not sold to the public by RAND but may be purchased from a bookseller or from the publisher. The prices quoted here are for the reader's convenience and may be subject to change.

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EFFICIENCY IN GOVERNMENT THROUGH SYSTEMS ANALYSIS, R. N. McKean. John Wiley & Sons, New York, 1958. 336 pp. \$8.00.

FOREIGN AID: THEORY AND PRACTICE IN SOUTHERN ASIA, C. Wolf, Jr. Princeton University Press, Princeton, N.J., 1960. 442 pp. Tables. \$7.50.

THE FRENCH ECONOMY AND THE STATE, W. Baum. Princeton University Press, Princeton, N.J., 1954. 391 pp. Tables. \$7.50.

LABOR PRODUCTIVITY IN SOVIET AND AMERICAN INDUSTRIES, W. Galenson. Columbia University Press, New York, 1954. 273 pp. Tables. \$5.50.

LINEAR PROGRAMMING AND ECONOMIC ANALYSIS, R. Dorfman, P. A. Samuelson, and R. M. Solow. McGraw Hill Book Company, Inc. New York, 1958. 527 pp. Tables. \$10.00.

MOBILIZING RESOURCES FOR WAR: THE ECONOMIC ALTERNATIVES, T. Scitovsky, E. S. Shaw, and L. Tarshis. McGraw-Hill Book Company, Inc., New York, 1951. 284 pp. \$4.50.

PRICES AND PRODUCTION OF MACHINERY IN THE SOVIET UNION, 1928-1958, Richard Moorsteen. Harvard University Press, Cambridge, Mass., 1962. 498 pp. Tables. \$15.00.

PSYCHOSIS AND CIVILIZATION, R. Goldhamer and A. W. Marshall. Free Press, Glencoe, Ill., 1953. 126 pp. Tables and Charts. \$4.00.

THE REAL NATIONAL INCOME OF SOVIET RUSSIA SINCE 1928, Abram Bergson. Harvard University Press, Cambridge, Mass., 1961. 488 pp. Illus. \$8.75.

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SOVIET NATIONAL INCOME AND PRODUCT IN 1928, Oleg Hoeffding.

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TEACHER SHORTAGES AND SALARY SCHEDULES, J. A. Kershaw and R. N.

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✓ A TIME SERIES ANALYSIS OF INTERINDUSTRY DEMANDS, K. J. Arrow,

M. Hoffenberg, H. Markowitz, and R. Shephard. North-Holland
Publishing Company, Amsterdam, The Netherlands, 1959. 289 pp.
Tables. \$7.70

✓ WATER SUPPLY: ECONOMICS, TECHNOLOGY AND WATER POLICY, J.

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Chicago Press, Chicago, Ill., 378 pp. Illus. \$7.50.

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ALALAuthor(s)Title & AbstractPublication No.
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Alchian, A. A.

AN AIRFRAME PRODUCTION FUNCTION

P-108
Oct. 20, 1949

A study of the reliability of learning curves and the Minus One-Third Curve or the Eighty Per Cent Curve. The determining factors of the curve, the universality throughout the industry, and the profitable fields of research are discussed. 15 pp. Illus. Presented before the American Economic Assn. at New York City, Dec. 27-30, 1949.

Alchian, A. A.

RELIABILITY OF PROGRESS CURVES IN AIRFRAME PRODUCTION

RM-260-1
(ATI 210621)
Feb. 3, 1950

A presentation of statistical tests that determine the similarity of the functions among various airframe manufacturers based on World War II data. Makes an assessment of the prediction reliability with these curves. 33 pp. Illus.

Alchian, A. A.

RELIABILITY OF COST ESTIMATES: SOME EVIDENCE

RM-481
(ATI 210346)
Oct. 30, 1950

Data from several sources on the reliability of cost estimates are presented as an aid that can be used as a yardstick for gauging the reliability of other cost estimates or predictions. 11 pp.

Alchian, A. A.
and
A. Skogstad &
N. Hanunian

ESTIMATING OUTPUT FROM FLOOR SPACE: FEASIBILITY

RM-563
(ATI 210689)
March 13, 1951

A discussion of estimating airframe output from any given plant when only the airframe type and weight, the floor area of the plant, and the date on which the plant initiated production of the specified model are known. 16 pp.

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Alchian, A. A.	THE CHEF, GOURMET, AND GOURMAND An attempt (1) to distinguish between research and development decisions and procurement decisions and (2) to indicate the relevance of such distinction to RAND's problems. In addition, the different kinds of required information and objectives sought are discussed. 12 pp.	RM-798 (ATI 169031) Mar. 24, 1952
Alchian, A. A.	ECONOMIC REPLACEMENT POLICY Presents a practical guide for equipment replacement based on the comparison of present-value costs. Contains the general economic principles and an illustrative problem. Omits computational methods. 31 pp. Illus.	RM-2153 April 9, 1958
Alchian, A. A. and K. J. Arrow & W. M. Capron	AN ECONOMIC ANALYSIS OF THE MARKET FOR SCIENTISTS AND ENGINEERS An attempt to determine whether there is or recently has been a "shortage" of scientists and engineers, and, if so, in what sense a shortage can exist. Reasons for seeking a greater supply of scientists and engineers are discussed. Possible defects in the economic system that affect demands for scientists and engineers are considered. Arguments about the efficiency of our educational system are evaluated, and a case is made for the policy of differential pay for teachers according to the scarcity of their specialties. 125 pp. Illus	RM-2190-RC June 6, 1958

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Alchian, A. A.	COSTS AND OUTPUTS Gives propositions designed to eliminate some of the ambiguities and errors involved in the relationships between cost and output both in the long and short run. The suggested propositions are shown to be empirically valid in distinguishing between rate and quantity of output, the changes in technology as distinct from changes in technique, the use of calendar-time dates of output instead of technical fixity for distinguishing output operations, and the use of capital-value concepts instead of rates of costs. 28 pp. Illus. Published in <u>The Allocation of Resources</u>, Paul Baran, Tibor Scitovsky, and E. S. Shaw (editors), Stanford University Press, Stanford, Calif., 1959, \$5.00.	P-1449 Sept. 3, 1958
Alchian, A. A. and R. A. Kessel	THE MEANING AND VALIDITY OF INFLATION-INDUCED BUSINESS PROFITS RESULTING FROM A LAG OF WAGES BEHIND PRICES A discussion of the belief that inflation causes prices to rise faster than wages. Attempts to convert this argument into empirically meaningful propositions and to examine the meaning, empirical content, and evidence supporting certain propositions. 58 pp. Tables. Published in <u>American Economic Review</u>, June 1960.	P-1488 Nov. 6, 1958
Alchian, A. A.	SOME ECONOMICS OF PROPERTY An attempt to separate and classify various types of "rights" constituting ownership, renting, leasing, and trusteeship. The purpose is to contrast the implied behavior consequences under various groupings of rights. In particular, the paper is directed toward aiding analysis of the various methods of assigning and using radio frequencies. Effects of rights to transfer and bearing of responsibility are discussed. 77 pp. Illus.	P-2316 May 26, 1961

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Arrow, K. J. and J.W.T. Youngs	THE DETERMINATION OF MANY-COMMODITY PREFERENCE SCALES BY TWO-COMMODITY COMPARISONS A comparison of two commodities under the customary economic assumptions to determine a preference scale of many commodities. 16 pp. Published in <u>Metroeconomica</u> , Dec. 1952.	P-49 Aug. 3, 1948
Arrow, K. J.	THE POSSIBILITY OF A UNIVERSAL SOCIAL WELFARE FUNCTION An examination of the possibility and basis for a universal social welfare function. 19 pp.	RAOP-41 Oct. 26, 1948
Arrow, K. J. and T. W. Anderson	A MATHEMATICAL MODEL OF AN AIR TRANSPORTATION SYSTEM A development of a mathematical model of an air transportation system in order to study the most efficient program of operations for transporting a given amount of goods between two fixed locations per unit of time. 7 pp.	RM-224 Aug. 26, 1949
Arrow, K. J. and S. M. Johnson	NOTES ON LINEAR PROGRAMMING -- PART XLIII: A FEASIBILITY ALGORITHM FOR ONE-WAY SUBSTITUTION IN PROCESS ANALYSIS A proof that an algorithm for the most efficient assignment of machines to tasks solves an equivalent linear-programming problem. The study assumes that with a certain number of machines (not all of the same capability) with which to do a certain number of tasks (not all of the same difficulty), it is better to use a more capable machine for a more difficult task. 14 pp. Also published as P-941.	RM-1976 (AD 144278) Sept. 12, 1957

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Arrow, K. J.	PRICE-QUANTITY ADJUSTMENTS IN MULTIPLE MARKETS WITH RISING DEMANDS Part of an economic analysis of the engineer-scientist market. Models the effect of steady upward shifts in demand functions in the adjustment of prices and quantities. 13 pp. Included in <u>Mathematical Methods in the Social Sciences</u> , 1959, K. J. Arrow, S. Karlin, and P. Suppes, Stanford Univ. Press, 1960. (\$8.75).	P-1364 May 7, 1958
Arrow, K. J. and W. M. Capron	DYNAMIC SHORTAGES AND PRICE RISES: THE ENGINEER-SCIENTIST CASE A discussion of the rapid increase in demand for scientists and engineers in the U.S. and of the "shortage" conditions in the past seven years and the cause for these conditions. 21 pp. Illus. Published in <u>The Quarterly Journal of Economics</u> , May 1959.	P-1365 May 7, 1958
Arrow, K. J. with A. A. Alchian & W. M. Capron	AN ECONOMIC ANALYSIS OF THE MARKET FOR SCIENTISTS AND ENGINEERS For abstract, see same title under Alchian.	RM-2190-RC June 6, 1958
Arrow, K. J.	ECONOMIC WELFARE AND THE ALLOCATION OF RESOURCES FOR INVENTION Shows that the competitive system fails to achieve an optimal resource allocation in the case of invention because of increasing returns, inappropriability, and uncertainty. For an optimal allocation to invention, the government or some other nonprofit agency needs to finance research and invention. 23 pp. Presented before the Conference on the Economic and Social Factors Determining the Rate and Direction of Inventive Activity held at the Univ. of Minnesota, May 12-14, 1960. Included in <u>The Rate and Direction of Inventive Activity: Economic and Social Factors</u> (National Bureau of Economic Resources, Special Conference Series 13), 635 pp.	P-1856 Dec. 15, 1959

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Arrow, K. J. and M. Hoffenberg, H. Markowitz, & R. Shephard	A TIME SERIES ANALYSIS OF INTERINDUSTRY DEMANDS North-Holland Publishing Co., Amsterdam, The Netherlands, 289 pp. Tables. \$7.70, at August 1962 rate of exchange. A study of the demand by different industries for each other's products. Discusses the variations of observed industry outputs in the U.S. from those that would have prevailed had coefficients been fixed. Uses a time period of 1929-1950, assuming fixed coefficients for 1947. Finds that the differences between the direct and indirect estimates of output are almost perfectly explained by a set of predetermined variables chosen for their presumed influence on the economic system.	Book, 1959
Arrow, K. J. and A. C. Enthoven	QUASI-CONCAVE PROGRAMMING A fundamental problem dealing with the maximization of a differentiable quasi-concave function. The paper contains four theorems: (1) extends the Kuhn-Tucker-Lagrange sufficiency conditions; (2) presents a version of the Kuhn-Tucker <u>Constraint Qualification</u> applicable to quasi-concave functions; (3) relates the concepts of quasi-concavity and diminishing marginal rates of substitution; (4) relates quasi-concavity to the familiar bordered determinant second-order condition for a constrained maximum. Extends the first two theorems to other problems and economic applications. 41 pp.	P-1847 Dec. 16, 1959

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Publication No.
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Averch, Harvey
with
L. L. Johnson

BEHAVIOR OF THE FIRM SUBJECT TO EXTERNAL
REGULATORY CONSTRAINT

For abstract, see same title under
Johnson.

P-2488-1
March 1962

Averch, Harvey

SOME INVESTMENT CRITERIA FOR UNDERDEVELOPED
AREAS

P-2540
March 1962

A discussion of the social welfare function to determine the appropriate goal of an economy during its development. The social welfare functions used in development theory by Chenery, Eckstein, and Galenson-Leibenstein ignore individual preferences. This paper examines the social welfare functions used by these writers and the investment criteria derived from them. 29 pp.

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Barnett, H. J.	SPECIFIC INDUSTRY OUTPUT PROJECTIONS A report on a conference on Research in Income and Wealth, held in May 1951 at RAND. 25 pp. Illus. Published in <u>Studies in Income and Wealth</u>, Vol. 15, National Bureau of Economic Research, New York, 1953. \$3.50. Presented to the National Bureau of Economic Research Council at New York City, May 26, 1951.	P-208 Sept. 1, 1951

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Bator, F. M.	ON CONVEXITY, EFFICIENCY, AND MARKETS A discussion of M. J. Farrell's article, "The Convexity Assumption in the Theory of Competitive Markets," in which Farrell charges the author and J. deV. Graaff for an error made in their analogy between competitive markets and one-man economies. This paper substantiates Mr. Graaff's and the author's position and examines Farrell's claim. Only those parts of the Farrell paper are considered that deal with nonconvexity in production functions. 12 pp. Published in <u>The Journal of Political Economy</u> , Oct. 1961.	P-2125 Oct. 19, 1960
Bator, F. M.	THE USES OF ECONOMICS: THEORY, POLICY, AND VALUES Emphasizes the highest function of normative economics, that of clarifying the issues and choices concerning the allocation of resources. Indicates the need for a precise, quantitative theory about the economy and concludes with four possible strategies for normative economics. 7 pp. Delivered at the dedication of the Center for Advanced Study of the Brookings Institution, Washington, D.C., Nov. 17, 1960. Incorporated in <u>Research for Public Policy</u> , The Brookings Institution, 1961, \$2.50.	P-2174 Dec. 28, 1960
Bator, F. M.	ON CAPITAL THEORY AND DEVELOPMENT PLANNING Comments on a paper by Prof. Otto Eckstein. The author and Eckstein are both bearish about the usefulness of capital theory to the development planner, but for somewhat different reasons. 8 pp. Prepared for the Dec. 1960 meeting of the American Economic Assn. at St. Louis, Mo. and published in the <u>American Economic Review, Papers and Proceedings</u> , May 1961.	P-2219 Feb. 10, 1961

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Baum, W.	THE FRENCH ECONOMY AND THE STATE Princeton University Press, Princeton, N.J. 391 pp. Tables. \$7.50. A study of the malfunctioning of the French economic system which inquires into the objectives, methods, and results of state intervention. Examines government efforts to handle certain problems of the postwar economy including reconstruction and modernization, economic fluctuations, and the balance of payments. Also deals with the state's role as a public financier, an entrepreneur, and a regulator of business and agriculture.	1958
Bear, D. V. T.	A NOTE ON THE RELATIONSHIP OF SAVING TO THE RATE OF INTEREST, REAL INCOME, AND EXPECTED FUTURE PRICES A refutation of the usual argument that saving and the rate of interest may be negatively related. Purports that a negative relation between savings and the interest rate should be in terms of the price elasticity of demand for future goods and that if such a negative relationship exists, the logical reaction of consumers to changes in expected future prices will be surprising. 13 pp. Illus. Published in <u>The Review of Economics and Statistics</u> , Feb. 1961.	P-1480 Sept. 4, 1958
Bear, D. V. T. and P. G. Clark	THE IMPORTANCE OF INDIVIDUAL INDUSTRIES FOR DEFENSE PLANNING Examines plausible supplies and demands in the U.S. economy after a nuclear war from the standpoint of peacetime defense preparations. Lists potential economic targets, the distribution of economic resources among them, discusses two premises underlying the analysis of prospective demands after an 80-city attack, and speculates on postwar relative values to guide peacetime actions to narrow prospective supply-demand imbalances. 22 pp. Illus. Presented before the American Economic Assn. at St. Louis, Dec. 28-30, 1960. Published under the title "Industrial Survival in Nuclear War," <u>Quarterly Review of Economics and Business</u> , Aug. 1961.	P-2093 Sept. 15, 1960

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Publication No.
and Date

Bear, D. V. T.
and
P. G. Clark

THE IMPORTANCE OF INDIVIDUAL INDUSTRIES
FOR DEFENSE PLANNING: SUPPLEMENTAL DATA

P-2124
Oct. 18, 1960

A supplement to P-2093. The present paper presents data on manufacturing value-added and population of 313 U.S. cities, postwar supplies of individual industries, postwar demands on individual industries, and postwar importance ratios for individual industries. 33 pp. Illus.

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Becker, A. S.	PRICES OF PRODUCERS' DURABLES IN THE UNITED STATES AND THE USSR IN 1955 Joint study with the Stanford Research Institute to provide USSR-US wholesale price ratios for 1955 for a representative sample of producers' durable equipment comprised of some 500 items. Price trends in the two countries since 1955 indicate that a lower ruble-dollar ratio should be applied in comparisons of current Soviet and American investment outlays on producers' durables. 304 pp. Illus.	RM-2432 (AD 229374) Aug. 15, 1959
Becker, A. S.	COMPARISONS OF UNITED STATES AND USSR NATIONAL OUTPUT: SOME RULES OF THE GAME An attempt to show that a prerequisite to public understanding of where we stand in the economic competition with the Soviet Union is the observance of a few critical rules in framing comparisons of the U.S. and Soviet economies. 16 pp. Published in <u>World Politics</u> , Oct. 1960, and in <u>The Goal of Economic Growth</u> , E. S. Phelps (ed.), W. W. Norton and Company, Inc., New York, 1962.	P-1881 Feb. 15, 1960
Becker, A. S.	ECONOMIC GROWTH AND SOVIET-AMERICAN RIVALRY Discusses the nature of the relationship between economic size and growth and the course of Soviet-American rivalry. Probes mainly into the question of how economic power is used as a means to desired ends. Also mentions that other measures besides the GNP must be used in comparing economic size and growth. 16 pp. Presented to the Annual Meeting of the Far Western Slavic Conference, San Francisco State College, San Francisco, Calif., April 29, 1961.	P-2286 April 21, 1961

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Beckmann, M.	EFFICIENT TRANSPORTATION IN NETWORKS A study of the efficient allocation of moving transportation equipment in a given network of highway lanes or railroads of limited road capacity. 5 pp. Published in the <u>Minutes of the Third Annual Logistics Conference</u> , Jan. 1952. Presented before the <u>Logistics Conference</u> at Washington, D. C., Jan. 1952.	P-282 March 19, 1952
Beckmann, M.	A CONTINUOUS MODEL OF TRANSPORTATION A study of commodity flows in terms of vector fields. Efficient transportation gives rise to a problem in the calculus of variations; the flow functions solving this problem contain price distribution functions as parameters. With net production functions dependent on prices, the model considered describes the flows and prices in a competitive regional market economy. 27 pp. Illus. Published in <u>Econometrica</u> , Oct. 1952. Presented before the <u>Econometric Society</u> at Minneapolis, Minn., Sept. 5, 1951.	P-290 March 25, 1952
Beckmann, M. and C. B. McGuire	THE DETERMINATION OF TRAFFIC IN A ROAD NETWORK: AN ECONOMIC APPROACH Part of a broader study on resource allocation problems in transportation. Suggests a framework in which the economic aspects of traffic engineering research problems are indicated, and the various results may be integrated. 20 pp. Published in <u>Studies in the Economics of Transportation</u> , by M. Beckmann, C. B. McGuire, and C. B. Winsten, Yale University Press, New Haven, Conn., 1956. \$4.00.	P-437 Oct. 6, 1953
Beckmann, M. and T. C. Koopmans C. B. McGuire & C. B. Winsten	THE ALLOCATION OF SWITCHING WORK IN A SYSTEM OF CLASSIFICATION YARDS Examines, from an economic standpoint, the switching work of a given system of classification yards through which fixed traffic flows move. 11 pp. Published in the <u>Proceedings of the Railway Systems and Procedures Association</u> , Dec. 1953. Presented before that Association at Chicago, Ill., Nov. 4, 1953, and before the <u>Econometric Society</u> , Montreal, Canada, Sept. 11, 1954.	P-448 Dec. 5, 1953

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Author(s)

Title & Abstract

Publication No.
and Date

Beckmann, M.
and
T. A. Marschak

AN ACTIVITY ANALYSIS APPROACH TO LOCATION
THEORY

P-649
April 5, 1955

An application of linear activity analysis to short-run locational problems by determining (1) the profit-maximizing locational decisions of a firm operating branch plants and (2) the efficient and attainable distributions of final commodities over the regions. 38 pp. Illus. Published in the Proceedings of the Second Symposium on Linear Programming, Washington, D.C., Jan. 27-29, 1955.

Beckmann, M.
and
C. B. McGuire &
C. B. Winsten

STUDIES IN THE ECONOMICS OF TRANSPORTATION

RM-1488
(AD 90419)
May 12, 1955

Examines the theoretical aspects of highway and railroad systems and develops concepts and methods for assessing the capabilities and efficiency of existing and projected traffic systems. 347 pp. Published by the Yale University Press, New Haven, Conn., 1956. \$4.00.

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Author(s)

Title & Abstract

Publication No.
and Date

Bergson, A.
and
H. Heymann, Jr.

ON THE TERRITORIAL COVERAGE OF SOVIET
OFFICIAL STATISTICS FOR YEARS SINCE 1939

RM-154
May 4, 1949

An examination of the Soviet territorial
changes since 1939 and the comprehensive-
ness of Soviet statistics after that year.
9 pp. Illus.

Bergson, A.
and
H. Heymann, Jr.

PROFITS AND SUBSIDIES IN SOVIET ECONOMIC
ACCOUNTS

RM-393
(ATI 210645)
May 19, 1950

A discussion and explanation of Soviet
practices in computing total profits of
economic organizations in the USSR.
National-product calculations are re-
worked to take into account the unusual
practice of not deducting losses. 41 pp.

Bergson, A.
and
E. L. Turgeon

PRICES OF IRON AND STEEL PRODUCTS IN THE
SOVIET UNION, 1928-1950: A SUMMARY REPORT

RM-802
(ATI 210411)
March 26, 1952

An extension of RM-767-1 (Rev. 1954) and
RM-778-1 (Rev. 1955). Computes index
numbers for the iron and steel industry
generally, including ordinary and quality
rolled steel and castings. 14 pp. Illus.

Bergson, A.
and
H. Heymann, Jr.

SOVIET NATIONAL INCOME AND PRODUCT,
1940-1948
Columbia University Press, New York.
261 pp. Tables. \$5.00

1954

Part of a broader examination to determine
the war potential and vulnerabilities of the
USSR economy. Data are compiled on (1) na-
tional economic accounts, i.e., sector and
global accounts of incomes and their dispo-
sition, and (2) the adjusted factor cost,
i.e., unit cost at factor price correspond-
ing on the average to relative factor pro-
ductivities in different economic sectors.
Previously published as R-253 (AD 90415),
June 1953.

Bergson, A.
with
R. Bernaut

PRICES OF CEMENT IN THE SOVIET UNION,
1928-1950
For abstract, see same title under
Bernaut.

RM-1136-1
(AD 96720)
Oct. 12, 1954

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Bergson, A. with R. Bernaut	PRICES OF PAINTS IN THE SOVIET UNION, 1928-1950 For abstract, see same title under Bernaut.	RM-1071-1 (AD 96718) Dec. 7, 1954
Bergson, A. and E. L. Turgeon	PRICES OF ORDINARY ROLLED STEEL IN THE SOVIET UNION, 1928-1950 Part of a larger study concerned with whole- sale prices which may ultimately provide a basis for the calculation of various de- flators for components of Soviet national income data. Discusses the changes in wholesale rolled-steel prices in the USSR from 1928-1950. 88 pp. Tables.	RM-767-1 (AD 96723) Dec. 10, 1954
Bergson, A. and R. Bernaut	PRICES OF BASIC CHEMICAL PRODUCTS IN THE SOVIET UNION, 1928-1950 A study of the changes in Soviet wholesale chemical prices during the period 1928-1950. Helps to determine a basis for calculating various deflators for national income data expressed in current rubles. 43 pp. Tables.	RM-920-1 (AD 96721) Dec. 17, 1954
Bergson, A. and E. L. Turgeon	PRICES OF QUALITY ROLLED STEEL IN THE SOVIET UNION, 1928-1950 A supplement to RM-767-1. 67 pp. Tables.	RM-778-1 (AD 96722) Feb. 1, 1955
Bergson, A. with E. L. Turgeon & R. Bernaut	PRICES OF MISCELLANEOUS BASIC INDUSTRIAL PRODUCTS, USSR, 1928-1950 For abstract, see same title under Turgeon.	RM-1482 (AD 90549) May 9, 1955
Bergson, A. with E. L. Turgeon	PRICES OF NONFERROUS METALS IN THE SOVIET UNION, 1928 TO 1950 For abstract, see same title under Turgeon.	RM-1030-1 (AD 96717) June 9, 1955
Bergson, A. and R. Bernaut & E. L. Turgeon	BASIC INDUSTRIAL PRICES IN THE USSR, 1928-1950: TWENTY-FIVE BRANCH SERIES AND THEIR AGGREGATION An extension of previous investigations concerned with index numbers of prices for different branches of Soviet basic industry from 1928-1950. The study is a compendium of these publications and aggregates the branch series into corresponding series for major industries and industry groups. 129 pp. Tables.	RM-1522 (AD 87546) Aug. 1, 1955

BEBE

<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Bergson, A.	ABBREVIATIONS FOR PRICE HANDBOOKS USED IN RAND STUDIES OF THE PRICES OF SOVIET BASIC INDUSTRIAL GOODS A list of the abbreviations used in RAND studies on the prices of Soviet basic in- dustrial goods, together with the titles of the price handbooks to which the abbrevi- ations refer. 4 pp.	RM-1557 (AD 87815) Sept. 27, 1955
Bergson, A. and R. Bernaut & E. L. Turgeon	PRICES OF BASIC INDUSTRIAL PRODUCTS IN THE USSR, 1928-1950 Part of a broader investigation to derive index numbers for use in deflating current ruble national income data. Concerns Soviet industrial price trends from 1928-1950. 55 pp. Illus. Published in <u>The Journal of Political Economy</u> , Aug. 1956.	P-789 Jan. 12, 1956
Bergson, A. with E. L. Turgeon	PRICES OF BASIC INDUSTRIAL GOODS IN THE USSR, 1950 TO 1956: A PRELIMINARY REPORT For abstract, see same title under Turgeon.	RM-1919 (AD 144262) June 12, 1957.
Bergson, A. and H. Heymann, Jr. & O. Hoeffding	SOVIET NATIONAL INCOME AND PRODUCT, 1928-1948: REVISED DATA Presents the revised current price estimates for 1928-1948 as calculated from recently published Soviet statistical data. Provides a connecting link between previous RAND re- search studies on Soviet national income and Bergson's book <u>The Real National Income of Soviet Russia since 1928</u> . 132 pp. Illus.	RM-2544 (AD 253000) Nov. 15, 1960
Bergson, A.	SOVIET NATIONAL INCOME Attempts to determine Soviet national income from 1928-1958 by a comparative evaluation of the Soviet rate of growth of total output and the rate of growth of factor productivity. Compares trends in USSR and U.S. national in- come. 64 pp. Tables. Presented before the Conference on Economics of Soviet Industriali- zation at Princeton, N.J., May 6-8, 1961.	P-2148-1 Oct. 1961

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Author(s)

Title & Abstract

Publication No.
and Date

Bergson, A.

THE REAL NATIONAL INCOME OF SOVIET RUSSIA
SINCE 1928
Harvard University Press, Cambridge, Mass.
488 pp. Illus. \$8.75

Book, 1961 &
R-367-PR
(AD 268170)
Oct. 1961

An assessment of the strength of the Soviet economy as a whole and its various sectors in an attempt to estimate the strength of those elements which contribute to military capability. The method used compiles income and outlay data for the USSR in accord with the principles of national income accounting familiar in the United States and other Western countries. The period covered makes possible long-term comparisons of the economic growth rates between the U.S. and the Soviet Union, and provides a base from which improved estimates of future developments and their strategic implications can be made.

BEBE

<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Bernaut, R. and A. Bergson	PRICES OF CEMENT IN THE SOVIET UNION 1928-1950 Part of a program to determine the war potential and vulnerabilities of Soviet economy. Discusses changes in wholesale cement prices from 1928-1950. 58 pp. Tables.	RM-1136-1 (AD 96720) Oct. 12, 1954
Bernaut, R.	PRICES OF BRICKS IN THE SOVIET UNION, 1928-1950 A study which deals with compiled data on wholesale price changes in Soviet bricks from 1928 to 1950. 46 pp. Tables.	RM-1186-1 (AD 96719) Dec. 1, 1954
Bernaut, R. and A. Bergson	PRICES OF PAINTS IN THE SOVIET UNION, 1928-1950 A study of the changes in Soviet wholesale paint prices. Part of a larger project which attempts to determine a basis for calculating various deflators for national income data expressed in current rubles. 83 pp. Tables.	RM-1071-1 (AD 96718) Dec. 7, 1954
Bernaut, R. with A. Bergson	PRICES OF BASIC CHEMICAL PRODUCTS IN THE SOVIET UNION, 1928-1950 For abstract, see same title under Bergson.	RM-920-1 (AD 96721) Dec. 17, 1954
Bernaut, R.	PRICES OF FUELWOOD AND WOOD PRODUCTS IN THE USSR, 1928-1950 Part of a broader investigation to provide a basis for calculating rates of change in the output of various sectors of the Russian economy. Examines wood prices in the USSR from 1928-1950. 90 pp. Tables.	RM-1421 (AD 86707) Feb. 1, 1955
Bernaut, R. with E. L. Turgeon & A. Bergson	PRICES OF MISCELLANEOUS BASIC INDUSTRIAL PRODUCTS, USSR, 1928-1950 For abstract, see same title under Turgeon.	RM-1482 (AD 90549) May 9, 1955
Bernaut, R. with A. Bergson & E. L. Turgeon	BASIC INDUSTRIAL PRICES IN THE USSR, 1928: 1928-1950: TWENTY-FIVE BRANCH SERIES AND THEIR AGGREGATION For abstract, see same title under Bergson.	RM-1522 (AD 87546) Aug. 1, 1955
Bernaut, R. with A. Bergson & E. L. Turgeon	PRICES OF BASIC INDUSTRIAL PRODUCTS IN THE USSR, 1928-1950 For abstract, see same title under Bergson.	P-789 Jan. 12, 1956

BL-BR

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Blackman, J. H.	A TENTATIVE INPUT-OUTPUT TABLE FOR THE USSR, 1941 PLAN For abstract, see same title under Kaplan.	RM-924 (ATI 210756) Sept. 2, 1952
Blackman, J. H.	TRANSPORTATION Discusses the magnitude and nature of trans- port services required by the Soviet economy to determine current levels of activity. An- alyzes long-term growth prospects of transporta- tion to explore implications of various hypoth- esized levels of production. 47 pp. Illus. Published in <u>Soviet Economic Growth</u> , A. Bergson (ed.), Row, Peterson & Company, Evanston, Ill., 1953, \$6.00. Presented before a meeting at Arden House, Harriman, N.Y., May 23-25, 1952.	P-288 Dec. 17, 1952
Brown, W. M.	AN APPROXIMATION METHOD FOR LARGE-ANGLE SCATTERING OF HIGH-ENERGY SCALAR AND VECTOR WAVES Presents an approximation method for large- angle scattering of high-energy scalar and vector waves. Part I develops an approxima- tion method for evaluating large-angle scatter- ing that reduces the problem of computing the scattering amplitude from a volume integration to a single quadrature. Part II extends the modified W.K.B. formulation for the scattering of scalar waves to the problem of vector-wave scattering. 79 pp. Illus.	P-1645 March 18, 1959

CA-CH

CA-CH

<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Capron, W. M. with K. J. Arrow	DYNAMIC SHORTAGES AND PRICE RISES: THE ENGINEER-SCIENTIST CASE For abstract, see same title under Arrow.	P-1365 May 7, 1958
Capron, W. M. with A. A. Alchian & K. J. Arrow	AN ECONOMIC ANALYSIS OF THE MARKET FOR SCIENTISTS AND ENGINEERS For abstract, see same title under Alchian.	RM-2190 June 6, 1958
Chapman, J. G.	THE REGIONAL STRUCTURE OF SOVIET RETAIL PRICES A preliminary study of the retail prices in the Soviet Union to determine the repre- sentativeness of Moscow price movements. Regional structure of prices and changes are described. Discusses rationale of Soviet regional price-fixing and changes in the prices in relation to average prices for the entire USSR. 144 pp. Illus.	RM-425 (ATI 210649) July 20, 1950
Chapman, J. G.	RETAIL PRICES OF MANUFACTURER CONSUMER GOODS IN THE USSR, 1937-1948 An index of the change in retail prices of manufactured goods in the USSR, 1937-1948. This index, together with the one of Soviet retail food prices in RM-707-1 (below), pro- vides a basis for comparing the volume of retail sales in 1937 and 1948 in "real" terms. 120 pp. Illus.	RM-803-1 (ATI 210412) Dec. 12, 1952
Chapman, J. G.	RETAIL FOOD PRICES IN THE USSR, 1937-1948 An attempt to measure change in retail food prices in the USSR, 1937-1948. This index, based on Moscow prices, relates to official food prices in state and cooperative stores and restaurants but does not cover prices on the free collective farm market. 117 pp. Illus.	RM-707-1 Jan. 13, 1953
Chapman, J. G.	REAL WAGES IN THE SOVIET UNION, 1938-1952 Contains data on changes in the cost of living and in real wages for the years 1928, 1937, 1948, and 1952. 51 pp. Illus. Published in <u>The Review of Economics and Statistics</u> , May 1954.	P-449 Oct. 17, 1953

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Author(s)

Title & Abstract

Publication No.
and Date

Chapman, J. G.

CONSUMPTION LEVELS IN THE SOVIET UNION
AND THE UNITED STATES

P-2133-1
Sept. 1961

A comparison of the levels and patterns of consumption in the Soviet Union and in the United States. The major similarities and differences are also analyzed. Considering Soviet development as a case of economic growth, an attempt is made to indicate those aspects of Soviet consumption which appear to be primarily related to the stage and level of economic growth. 78 pp. Tables. Presented before the Conference on Economics of Soviet Industrialization at Princeton, N.J., May 6-8, 1961, and published in the proceedings of the conference.

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Clark, P. G.	VULNERABILITY AND RECUPERATION OF A REGION- AL ECONOMY: A STUDY OF THE IMPACT OF A HYPOTHETICAL ATOMIC ATTACK ON NEW ENGLAND An attempt to determine the economic conse- quences of bombing attacks on a region of the nation. Both heavy and light bombing attacks on New England are postulated, with and without warning. The purpose of the study is primarily to explore a method of analysis, not to make an explicit forecast. 99 pp. Tables.	RM-1809 (AD 123549) Oct. 12, 1956
Clark, P. G.	CIVIL DEFENSE FOR WILLIAMSTOWN? A discussion of the prevailing beliefs that are causing popular apathy in the United States toward civil defense measures. 8 pp. Published in the <u>Williams Alumni Review</u> , July 1959.	P-1719 June 8, 1959
Clark, P. G. with D. V. T. Bear	THE IMPORTANCE OF INDIVIDUAL INDUSTRIES FOR DEFENSE PLANNING For abstract, see same title under Bear.	P-2093 Sept. 15, 1960
Clark, P. G. with D. V. T. Bear	THE IMPORTANCE OF INDIVIDUAL INDUSTRIES FOR DEFENSE PLANNING: SUPPLEMENTAL DATA For abstract, see same title under Bear.	P-2124 Oct. 18, 1960

CO

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Cooper, G.	TAXATION AND INCENTIVE IN MOBILIZATION An examination of the effects on labor incentive of various possible kinds of change in the income tax structure and the implications of these results for fiscal policy in mobilization. 27 pp. Illus. Published in the <u>Quarterly Journal of Economics</u> , Feb. 1952. Presented before the Econometric Society at Santa Monica, Calif. Aug. 2, 1951.	P-200 March 7, 1951
Cooper, G. and R. N. McKean	ARE WE SURE ABOUT DISPERSAL? A preliminary appraisal of dispersal policy. Certain of its social objectives are discussed, and several alternatives to dispersal are indicated. 29 pp.	P-301 May 19, 1952
Cooper, G. and R. N. McKean	IS DISPERSAL GOOD DEFENSE? A companion study to P-301 (above). 16 pp. Published in <u>Fortune</u> , Nov. 1954.	P-548 Sept. 15, 1954
Cowan, L. G.	THE ECONOMIC DEVELOPMENT OF MOROCCO Covers the history of the country, the organization of the French Protectorate in 1912, resources and industry, investment, foreign trade, the impact of independence on Moroccan labor, the role of government in economic development, and the future development of Morocco. Concludes that if Morocco continues to respond to the demands of industrialization, its future economic development will rest on a solid foundation. 139 pp. Illus.	P-1522 Oct. 21, 1958

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DEDE

<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Debreu, G.	THE COEFFICIENT OF RESOURCE-UTILIZATION An attempt to determine numerically the "dead loss" associated with a nonoptimal situation of an economic system. The treatment is based on vector set properties in the commodity space. 32 pp. Illus. Published in <u>Econometrica</u> , July 1951. Presented before the <u>Econometric Society</u> at Cambridge, Mass., Aug. 1950.	P-206 April 1951
Debreu, G.	A CLASSICAL TAX-SUBSIDY PROBLEM A discussion of a classical tax-subsidy problem in an economic system in which l commodities are transformed into each other by n production-units and consumed by m consumption-units. 15 pp. Published in <u>Econometrica</u> , Jan. 1954. Presented before the <u>Econometric Society</u> at Minneapolis, Minn. Sept. 6, 1952.	P-357 Dec. 15, 1952
DeHaven, J. C., and L. A. Gore & J. Hirshleifer	A BRIEF SURVEY OF THE TECHNOLOGY AND ECONOMICS OF WATER SUPPLY A RAND Corporation study which delineates the problem of water supply and indicates the more important areas of research in this field. The hydrologic cycle, together with theoretical aspects, is examined to provide a background for assessing the total natural water available to the U.S. and its distribution by source. The present and future costs of producing fresh water from saline by known technically feasible processes are estimated. 62 pp. Illus.	R-258 1955
DeHaven, J. C. and J. Hirshleifer	FEATHER RIVER WATER FOR SOUTHERN CALIF CALIFORNIA Estimates the role which water supply from the Feather River Project should play in the calculations of Southern Calif. Concludes that alternative measures have not been adequately considered and that no convincing economic justification of the project has yet been presented. 27 pp. Tables. Published in the <u>Land Economics</u> , Aug. 1957. Presented before the <u>Econometric Society</u> at Cleveland, Ohio, Dec. 27, 1956.	P-1034 Feb. 20, 1957

DE-DO

DE-DO

<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
DeHaven, J. C. with J. Hirshleifer & J. Milliman	WATER SUPPLY: ECONOMICS, TECHNOLOGY AND POLICY For abstract, see same title under Hirshleifer.	Book, 1960
Demsetz, H.	ECONOMIC GAINS FROM STORM WARNINGS: TWO FLORIDA CASE STUDIES Assesses the losses incurred annually by the City of Miami and the Florida Power and Light Company as a result of damage caused by tropical storms in the Miami area. Estimates net eco- nomic gains derivable from storm warning systems. Indicates that climatological data, used appro- priately, can bring about still unrealized eco- nomic gains, even without improvements in observation techniques. 50 pp. Illus.	RM-3168-NASA June 1962
Denny, B. C. with E. G. Mesthene	SCIENCE AND STATECRAFT For abstract, see same title under Mesthene.	P-2462-1 Oct. 1961
Domar, E. D.	DEPRECIATION, REPLACEMENT, AND GROWTH Discusses the growth of investment and capital stock subject to depreciation and periodic replacement. 54 pp. Illus. Pub- lished in <u>The Economic Journal</u> , March 1953.	P-325 Sept. 11, 1952
Dorfman, R., and P. A. Samuelson & R. M. Solow	LINEAR PROGRAMMING AND ECONOMIC ANALYSIS McGraw-Hill Book Company, Inc., New York. 527 pp. Tables. \$10.00. Shows that linear programming is related to traditional economic theory without delving into higher mathematics. Sets forth the basic concepts, assumptions, and leading ideas of linear programming, with problems and methods of solution. Includes input- output analysis, game theory, and matrix algebra.	Book, 1958

EA

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Author(s)

Title & Abstract

Publication No.
and Date

Eason, W. W.

TRENDS AND PROSPECTS OF THE SOVIET POPULATION AND LABOR FORCE

P-289
Dec. 17, 1952

A discussion of the trends and prospects in Soviet labor supply as indicated by changes in the sex and rural-urban structure of the working age population, and by industrial labor force requirements. Considers 1926-39, 1939-50, and 1950-70 time periods. 79 pp. Illus. Published in Soviet Economic Growth, ed. by A. Bergson. Row, Peterson & Co., Evanston, Ill., 1953, \$6.00. Presented before a meeting at Arden House, Harriman, N.Y., May 23-25, 1952.

Eason, W. W.

THE AGRICULTURAL LABOR FORCE AND POPULATION OF THE USSR: 1926-1941

RM-1248
(AD 85428)
May 4, 1954

Describes the economic and social structure of Soviet agriculture during the first three five-year plans measured in terms of the size and age-sex composition of the population. Measures trends in USSR economic development. 217 pp. Tables.

Eason, W. W.

EMPLOYMENT AND UNEMPLOYMENT IN THE USSR

P-551
March 14, 1955

An evaluation of the results of the Soviet 1926 labor force census, the principal changes occurring through 1939, several measures of the total labor force during the late 1930's, and possible indications of unemployment. 59 pp. Tables. Published in Policies to Combat Depression, Universities-National Bureau Committee for Economic Research, Princeton University Press, Princeton, N. J., 1956. \$8.50. Presented before the Universities-National Bureau Committee Conference at Princeton University, Sept. 17-18, 1954.

EL

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Author(s)

Title & Abstract

Publication No.
and Date

Ellsberg, D.

THE CRUDE ANALYSIS OF STRATEGIC CHOICES

P-2183
Dec. 15, 1960

Analyzes some of the significant implications for U.S. military objectives of specific military choices, such as the introduction of a new weapon system, deployment, operational procedures or protective measures. 13 pp. Presented before the American Economic Assn. at St. Louis, Mo., Dec. 1960, and published in the Proceedings, May 1961.

Ellsberg, D.

RISK, AMBIGUITY, AND THE SAVAGE AXIOMS

P-2173
Aug. 1961

Discusses a class of situations in which many reasonable people neither wish nor tend to conform to the Savage postulates of rational behavior. There is no way to infer meaningful probabilities for events from their choices in these situations, nor can they be described as acting as if they were maximizing the mathematical expectation of utility. Such self-consistent behavior violating the Savage axioms seems to occur in situations that can be described as highly ambiguous. 42 pp. Published in the Quarterly Journal of Economics, Nov. 1961.

ENEN

<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Enke, S.	INTERNATIONAL COMMODITY EQUILIBRIUM: SOLUTION BY ELECTRIC ANALOGUE	P-117 Dec. 12, 1949
	Evaluates an electric analogue as a prediction factor in equilibrium solution for region gases. Economic consequences may be caused by schedule changes in the supply or demand in any region or by a variation in freight cost between two regions. 10 pp. Illus. Published in <u>Econometrica</u> , Jan. 1951.	
Enke, S.	SOME ECONOMIC ASPECTS OF FISSIONABLE MATERIAL	P-462 Nov. 25, 1953
	A theoretical discussion of an optimum program for the production, allocation, and use of fissionable material according to economic precepts--once important political and military decisions have been made. In particular, U-235 and PU-239, which involve numerous economic suboptimizations, are discussed. 16 pp. Illus. Published in <u>The Quarterly Journal of Economics</u> , May 1954.	
Enke, S.	CAPITAL INTENSITY AS A MITIGATION OF INFERIOR LABOR: A GENERAL THEOREM	P-2118 Oct. 10, 1960
	A discussion of Hirschman's thesis on the contrast between continuous-process activities with other productive activities in which work sequences are less rigidly determined. The author paraphrases this argument, suggests modifications, and presents a more general theorem. 9 pp. Illus.	
Enke, S.	PRODUCTION FUNCTIONS AND CAPITAL DEPRECIATION	P-2226 Feb. 16, 1961
	A discussion of macroeconomic theory, which has tended to stress the determination and distribution of net income. The moral of this essay is that production functions that include capital stocks as an input can only be output equations because of the nature of capital's contribution to production. Such output statements are independent of depreciation. 21 pp. Illus.	

ENENAuthor(s)Title & AbstractPublication No.
and Date

Enthoven, A. C.

THE ECONOMICS OF NAVY PAY

P-1051

April 2, 1957

A defense of the principle of differential pay in the Navy, based on supply and productivity considerations. Argues that the primary objective in the choice of salaries ought to be the maximization of the total effectiveness of the service as a fighting force, within the limitations of the budget. Implies that each man's salary should be proportional to what he adds to total effectiveness. 18 pp.

Enthoven, A. C.

SUPPLY AND DEMAND AND MILITARY PAY

P-1186

Sept. 30, 1957

A study of the economic aspects of recent proposals to increase military salaries. Argues that more military effectiveness could be obtained if more money were spent on hiring scarce technicians (and correspondingly less on unskilled manpower) and that if more were spent on personnel and less on equipment. 14 pp. Published as "An Economist's View of the Cordiner Recommendations," in Air Force, Jan. 1958.

Enthoven, A. C.

THE MATHEMATICS OF MILITARY PAY

P-1100

Nov. 11, 1957

A suggestion that Congress instruct the Services to follow a policy of maximizing military effectiveness within the limitations of the personnel budget. The optimum allocation of funds can be determined by beginning with the current program and comparing the actual over-all effectiveness of the service with that which would result from slightly different allocations. The fact that the Services can already decide what they consider to be an optimum balance between different ranks, ages, and specialties indicates that this theory is possible. 30 pp. Tables.

Enthoven, A. C.

MONEY AND THE INTEREST RATE IN A
NEOCLASSICAL WORLD

P-1567

Dec. 4, 1958

Presents the argument that the action of the monetary system changes the relative supplies of the various financial assets in the hands of the private sector. In turn, this affects the rate of interest and other variables. If the rate of consumption

(cont'd.)

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Enthoven, A. C. (cont'd)	of the household sector is influenced by its financial asset holdings, and if the investment decisions of firms are affected by the extent to which they are in debt, then the actions of the monetary system can be neutral only in very special cases. 21 pp. Presented before the Econometric Society at Chicago, Illinois, December 20, 1958.	
Enthoven, A. C. and H. S. Rowen	DEFENSE PLANNING AND ORGANIZATION A discourse on the organization of the Dept. of Defense, its roles and missions and the mechanisms through which the business of defense is conducted. Shortcomings for handling allocation problems are examined, and proposals for reorganization are presented. 55 pp. Tables. Presented before the Universities-National Bureau of Economic Research Conference at the University of Virginia, Charlottesville, Va., April 10-11, 1959, and published in its proceedings: <u>Public Finance: Needs, Sources and Utilization</u> , Princeton University Press, 1961.	P-1640 July 26, 1959
Enthoven, A. C.	THE SIMPLE MATHEMATICS OF MAXIMIZATION An economic approach to the problem of military choice: that of allocating a fixed budget among alternative strategic weapon systems, or of finding the maximum of some relevant measure of strategic airpower. 70 pp. Illus. Incorporated in <u>The Economics of Defense in the Nuclear Age</u> , Harvard University Press, Cambridge, Mass., 1960.	P-1833 Nov. 3, 1959
Enthoven, A. C. and K. J. Arrow	QUASI-CONCAVE PROGRAMMING For abstract, see same title under Arrow.	P-1847 Dec. 16, 1959

FA

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Author(s)

Title & Abstract

Publication No.
and Date

Fagg, D. R.
and
C. Kaysen &
R. N. McKean

WHAT THE FACTORY WORKER KNOWS ABOUT HIS
FACTORY

P-1275
Feb. 2, 1958

An exploratory attempt to measure the variability in the "knowledge" that workers have about their factory. Interviews with workers showed that the range of answers to specific questions was very wide and that the median answer was often far from the correct one. In general, the more abstract the question, the greater was the variability and bias. 46 pp. Illus. Published in The Journal of Business, July 1958.

FE

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Ferguson, A. R.	MECHANICS OF SOME LIMITED DISARMAMENT MEASURES	P-2140 Nov. 21, 1960
	Attempts to determine how disarmament measures affect the economies of military power. Suggests that the broader the definition of weapon systems limited by an arms control measure, the greater is its effect if successive expansion in scope is possible. 19 pp. Illus. Presented before the American Economic Association at St. Louis, Mo., Dec. 28-30, 1960.	
Ferguson, A. R.	TACTICS IN A LOCAL CRISIS	RM-3034-ISA (AD 288909) Sept. 1962
	Presents a model of the interrelationships among strategic, tactical, economic, and political factors in pursuing a nation's interests in cases of local aggression against it or its allies. The analysis deals specifically with the manipulation of the West's military and other assets in local crises so as to improve the West's bargaining position and its relative power position. Explores conditions under which forceful actions can be taken with little risk of extensive violence; seeks to identify means to control escalation in the event of violence; and describes the general characteristics of moves suitable for the West in a number of substantially differing political and military situations. 130 pp. Illus.	
Ferguson, A. R.	DISARMAMENT AND DETERRENCE	P-2553-1 Nov. 26, 1962
	Discusses deterrence, disarmament, and approaches to peace. Views these factors as complementary elements in solving problems posed by political conflict between the democracies and the Soviet Union. Concludes that neither deterrence nor arms control can solve the underlying political problems but can serve in other ways. 41 pp. Presented before a Seminar on Arms Control and Disarmament at Reed College, Portland, Ore., March 30-31, 1962.	

FI-FL

FI-FL

<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Fisher, G. H. and H. M. Markowitz	ON PREDICTING A COMBINATION OF OUTPUTS AND FINAL DEMANDS BY INPUT-OUTPUT Presents a matrix which predicts final de- mands from estimates of outputs and outputs from estimates of final demands. 4 pp.	RM-954 (ATI 210479) Oct. 3, 1952
Flood, M. M.	ILLUSTRATIVE EXAMPLE OF APPLICATION OF KOOPMAN'S TRANSPORTATION THEORY TO SCHED- ULING MILITARY TANKER FLEET An analysis of the operation of a U.S. military tanker fleet to determine op- timum routes throughout the world for delivery of bulk petroleum products to the military. 18 pp. Illus.	RM-267 Oct. 17, 1949

GA

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Galenson, W.	RUSSIAN LABOR PRODUCTIVITY STATISTICS An analysis of Russian productivity statistics to 1949. Examines (1) the concepts employed by Russian statisticians in computing labor productivity, (2) the trend of labor productivity since the inception of the five-year plans, and (3) the productivity changes in the coal mining industry to enumerate problems of evaluation productivity statistics. 30 pp. Published in the <u>Industrial and Labor Relations Review</u>, July 1951.	P-126 Jan. 17, 1950
Galenson, W.	TRENDS IN SOVIET INDUSTRIAL PRODUCTIVITY Examines past trends in Soviet industrial productivity, compares absolute productivity levels in Soviet and American industry, and suggests possible productivity trends in the USSR during the next two decades. 27 pp. Illus. Published in <u>Soviet Economic Growth</u>, ed. by A. Bergson. Row, Peterson & Co., Evanston, Ill., 1953. \$6.00. Presented before a meeting at Arden House, Harriman, N. Y., May 23-25, 1952.	P-276 March 6, 1952
Galenson, W.	LABOR PRODUCTIVITY IN SOVIET AND AMERICAN INDUSTRIES Columbia University Press, N.Y., 273 pp. Tables. \$5.50. Traces the development of labor productivity in numerous Soviet industries since 1928, compares U.S. and USSR productivity in these industries, speculates on the future trends in Soviet productivity. Also published as R-257 (AD 90417).	1954
Galenson, W.	INDUSTRIAL TRAINING IN THE SOVIET UNION A discussion of Soviet vocational training since 1921. Considers, in particular, the magnitude of the industrial training program, forms of direct factory training, formal vocational education, and the dissemination of technical information within the USSR. 42 pp. Tables. Also published as P-729 and in the <u>Industrial and Labor Relations Review</u>, July 1956.	RM-1479 (AD 90544) May 5, 1955

GE

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Gerschenkron, A. and A. E. Nimitz	A DOLLAR INDEX OF SOVIET PETROLEUM OUTPUT, 1927-28 to 1937 Attempts to measure the Soviet output of petroleum products during the given time period. U.S. dollars of 1939 purchasing power are used as the unit of measurement. 210 pp. Illus. (See also RM-1042 under Nimitz.)	RM-804 (ATI 210413) April 4, 1952
Gerschenkron, A. and A. E. Nimitz	A DOLLAR INDEX OF SOVIET IRON AND STEEL OUTPUT, 1927/28-1937 A recomputation of Soviet iron and steel industry output from 1927/28-1937, ex- pressed in terms of U.S. dollars of 1939 purchasing power. 266 pp. Tables.	RM-1055 (ATI 210784) March 13, 1953
Gerschenkron, A.	A DOLLAR INDEX OF SOVIET ELECTRIC-POWER OUTPUT An attempt to measure Soviet power output in dollars from 1927/28 to 1937, so that power output may be combined with the out- put, measured in dollars, of other branches of Soviet heavy industry. One of several studies expected to provide a basis for calculating the dollar equivalent of current Soviet industrial and military output. 104 pp. Tables.	RM-1282 (AD 86919) June 24, 1954
Gerschenkron, A.	SOVIET HEAVY INDUSTRY: A DOLLAR INDEX OF OUTPUT, 1927/28-1937 An attempt to measure the growth of output in Soviet heavy industry. Considers the machine building, iron and steel, petroleum, coal, and electric power industries. 26 pp. Tables. Published in <u>The Review of Economics and Statistics</u> , May 1955.	P-560 Aug. 30, 1954

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Girshick, M. A. with A. Skogstad & A. Kaplan	THE PREDICTION OF SOCIAL AND TECHNOLOGICAL EVENTS For abstract, see same title under Skogstad.	P-93 April 1, 1949
Goldhamer, H. and A. W. Marshall	PSYCHOSIS AND CIVILIZATION Free Press, Glencoe, Ill., 126 pp. Tables and Charts. \$4.00. Two studies in the frequency of mental dis- ease. The first shows that in the age group under 50 years, there has been no increase in the frequency of psychoses over the past 100 years. The second examines in greater detail the frequency of major mental illnes- ses today and presents a convenient means of expressing this in terms of the risk of such illness during an individual's lifespan or some particular portion of it. Presents a new expectancy table.	1953
Goldsen, J. M. with B. H. Klein, <u>et al.</u>	COMMUNICATIONS SATELLITES AND PUBLIC POLICY: AN INTRODUCTORY REPORT For abstract, see same title under Klein.	RM-2925-NASA (AD 275936) Dec. 1961
Gore, L. A. with J. C. DeHaven & J. Hirshleifer	A BRIEF SURVEY OF THE TECHNOLOGY AND ECONOMICS OF WATER SUPPLY For abstract, see same title under DeHaven.	R-258 1955

HAHAAuthor(s)Title & AbstractPublication No.
and Date

Hald, M. W.

SOCIAL CHARGES IN THE EEC COUNTRIES: SOME
ECONOMIC ASPECTSP-1439
July 22, 1958

A discussion on the economic aspects of "social charges," defined as the costs to employers of the fringe benefits of worker remuneration. The study is confined to the possible economic effects of these charges to countries of the European Economic Community. Some possible effects of the development of social charges are explored, and areas for future research are indicated. 29 pp.

Hald, M. W.

A SELECTED BIBLIOGRAPHY ON ECONOMIC DEVELOP- RM-2096-1
MENT AND FOREIGN AID (AD 206551)

Nov. 26, 1958

A selective bibliography of 1,500 items on economic and other aspects of growth and development in underdeveloped areas and on the policies of the U.S. and other agencies in fostering development. Primarily concerned with the period 1950-1957, with emphasis on the last five years. Includes an index by country. 103 pp.

Hald, M. W.

THE EXPORT-IMPORT BANK AND DEVELOPMENT
LENDINGP-1668
April 15, 1959

A review of the evolution of the policies and operations of the Export-Import Bank (the principal agency of the U.S. government engaged in international finance) as a basis for evaluating its appropriateness as a development loan agency to aid underdeveloped countries. 23 pp. Tables.

Hanunian, N.
with
A. A. Alchian
& A. SkogstadESTIMATING OUTPUT FROM FLOOR SPACE:
FEASIBILITYRM-563
(ATI 210689)
March 13, 1951

For abstract, see same title under Alchian.

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Heymann, H., Jr. with A. Bergson	ON THE TERRITORIAL COVERAGE OF SOVIET OFFICIAL STATISTICS FOR YEARS SINCE 1939 For abstract, see same title under Bergson.	RM-154 May 4, 1949
Heymann, H., Jr. with A. Bergson	PROFITS AND SUBSIDIES IN SOVIET ECONOMIC ACCOUNTS For abstract, see same title under Bergson.	RM-393 (ATI 210645) May 19, 1950
Heymann, H., Jr. <u>et al.</u>	A TENTATIVE INPUT-OUTPUT TABLE FOR THE USSR, 1941 PLAN For abstract, see same title under Kaplan.	RM-924 (ATI 210756) Sept. 2, 1952
Heymann, H., Jr. with A. Bergson	SOVIET NATIONAL INCOME AND PRODUCT, 1940-1948 For abstract, see same title under Bergson.	1954
Heymann, H., Jr.	SOVIET TRADE AND AID: TRICKLE OR TORRENT? An investigation of (1) the relationship between the growth of the Soviet economy and its participation in foreign trade and technical assistance, and (2) the likely impact of the Soviet economic offensive. 12 pp. Tables. Revised version of a formal statement presented at Congressional Hear- ings, Dec. 13, 1956. Published in the <u>Hearings before the Subcommittee on Foreign Economic Policy of the Joint Economic Com- mittee, Congress of the United States, 84th Congress, 2nd Session, Dec. 10, 12, and 13, 1956. U.S. Government Printing Office, Washington, D. C.</u>	P-1047 Feb. 14, 1957
Heymann, H., Jr.	THE SOVIET ROLE IN INTERNATIONAL CIVIL AVIATION Discusses the vast Soviet program of global air-transport expansion designed to under- mine U.S. aviation leadership. Two questions are examined: (1) What do the recent develop- ment trends in the USSR tell us about the Soviet ability to compete with equipment? and (2) From the viewpoint of international air routes, how serious are their ambitions, and how promising are their opportunities for de- veloping a global air-transport network? 22 pp. Illus.	RM-2213 (AD 156019) Dec. 4, 1957

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Publication No.
and Date

Heymann, H., Jr.

FUTURE PROSPECTS FOR SOVIET ECONOMIC AID

P-1269

Jan. 31, 1958

Considers such aspects of Middle East development as: the size of current Soviet trade and aid effort; the Soviet role in machinery exports; the future of Soviet industrial exports to the under-developed countries; the fact that Soviet aid is not a quantitative but a qualitative threat; and future Soviet opportunities in the field of civil aviation. 17 pp. A summary a full text of a talk given at the 12th Annual Conference of the Middle East Institute in Washington, D.C., Jan. 31, 1958, and published in the transcript of that meeting.

Heymann, H., Jr.

A COMMENT ON "COSTS, FREIGHT RATES, AND LOCATION DECISIONS IN THE USSR"

P-1507

Oct. 3, 1958

A commentary on a paper presented by Holland Hunter before the Symposium on Economic Calculation and Organization in the USSR and Eastern Europe, June 17, 1958. Hunter shows how the structure of Soviet freight charges reflects the government's efforts to influence the economic behavior of producers and to assert the priority of planners' objectives over producers' preferences. 9 pp.

Heymann, H., Jr.

THE USSR IN THE TECHNOLOGICAL RACE

P-1754

July 20, 1959

An attempt to explain the rapid rate of Soviet progress in science and technology and to indicate some of its implications for the U.S. 15 pp. Presented before the National Strategy Conference for Reserve Officers at the National War College, Washington, D.C., July 20, 1959.

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Heymann, H., Jr.	SOVIET FOREIGN AID AS A PROBLEM FOR U.S. POLICY Discusses (1) our tendency to overlook the profound differences between Soviet and U.S. conceptions of the role and objectives of foreign aid, thereby drawing inappropriate conclusions for our own policy posture; (2) our overly apprehensive concern about Soviet "economic domination" and its effect on U.S. aid policy; and (3) our pressing need to develop more attractive answers of our own to those features of Soviet aid that account for much of its distinctive impact, thus rendering it politically innocuous. 22 pp. Presented before the American Political Science Assn. at Washington, D. C., Sept. 11, 1959.	P-1769 Sept. 11, 1959
Heymann, H., Jr.	COMMUNIST ECONOMIC SUBVERSION--A REAPPRAISAL A reappraisal of the significance of Communist economic activity in less-developed countries for the SEATO area and for the Free World. Attempts to determine whether Soviet economic competition is communist, economic, or subversive. Suggests a possible solution for countering Soviet strategy. 18 pp. Presented before the Second SEATO Countersubversion Seminar at Lahore, Pakistan, Feb. 9, 1960.	P-1943 Feb. 9, 1960
Heymann, H., Jr. with A. Bergson & O. Hoeffding	SOVIET NATIONAL INCOME AND PRODUCT, 1928-1948: REVISED DATA For abstract, see same title under Bergson.	RM-2544 (AD 253000) Nov. 15, 1960

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Publication No.
and Date

Heymann, H., Jr.

AVIATION AND INTERNATIONAL RELATIONS

P-2479
Nov. 1961

Discusses some misconceptions concerning the link between U.S. commercial aviation and the nation's military security, and the contribution of aviation supremacy to our national prestige. Three U.S. foreign policy aims are presented, together with the challenges they pose for civil aviation. 14 pp. Presented before the Symposium on the Issues and Challenges of Air Transportation at Hartford, Conn., Nov. 2, 1961.

Heymann, H., Jr.

AIR TRANSPORT AND ECONOMIC DEVELOPMENT:
SOME COMMENTS ON FOREIGN AID PROGRAMS

P-2486
Dec. 1961

A description of the general nature of U.S. aviation involvement with underdeveloped countries. Some of its consequences are examined, and a few of the special problems that the air transport function poses for pursuit of economic development objectives are considered. 16 pp. Presented before the American Economic Association at New York, Dec. 28, 1961. Published in American Economic Review: Papers and Proceedings, May 1962.

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Title & Abstract

Publication No.
and Date

Hirschman, A. O.
and
C. E. Lindblom

ECONOMIC DEVELOPMENT, RESEARCH AND DEVELOPMENT, POLICYMAKING: SOME CONVERGING VIEWS

P-1982
May 4, 1960

Examines the convergence between the views of Albert Hirschman on economic development, Burton Klein and William Meckling on technological research and development, and Charles Lindblom on policymaking in general. These three independent lines of work appear to challenge some widely accepted generalizations about what is variously described in the literature as the process of problem solving and decisionmaking. 28 pp. Illus.

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Hirshleifer, J. and J. A. Kershaw	THE ECONOMIC WAR POTENTIAL OF THE UNITED STATES AND THE SOVIET UNION A comparison of the economic war potential of the U.S. and USSR, estimated (1) for 1950 and (2) between 1955 and 1960. 32 pp. Illus.	RM-367 (ATI 210373) April 17, 1950
Hirshleifer, J.	WAR DAMAGE INSURANCE Recommends that war damage insurance be offered to protect property-owners from losses attributed to enemy action. This would encourage private actions which will tend to reduce the physical and economic vulnerability to enemy bombing. 21 pp. Published in <u>The Review of Economics and Statistics</u> , May 1953.	P-519 May 1953
Hirshleifer, J. with A. W. Marshall	THE SUPPLY OF FEMALE LABOR IN WORLD WAR II For abstract, see same title under Marshall.	P-420 Feb. 5, 1954
Hirshleifer, J.	COMPENSATION FOR WAR DAMAGE: AN ECONOMIC VIEW A study of the effects of possible insurance or indemnity schemes which might be adopted on the resource allocation of the nation both before and after bombing. Indicates that a properly conceived insurance plan will encourage private actions in peacetime to reduce national vulnerability to bombing and conversely, a poorly conceived plan will tend to discourage expenditures designed to reduce vulnerability. 26 pp. Published in the <u>Columbia Law Review</u> , Feb. 1955.	P-517 April 29, 1954
Hirshleifer, J. with J. C. DeHaven & L. A. Gore	A BRIEF SURVEY OF THE TECHNOLOGY AND ECONOMICS OF WATER SUPPLY For abstract, see same title under DeHaven.	R-258 1955
Hirshleifer, J.	THE EXCHANGE BETWEEN QUANTITY AND QUALITY An analysis of how general convex cost isoquants and resulting instabilities may be in the problem of quantity versus quality. Considers primarily the mathematical formulations of the cost function. 14 pp. Illus. Published in <u>The Quarterly Journal of Economics</u> , November 1955.	P-406 March 15, 1955

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Hirshleifer, J.	SOME THOUGHTS ON THE SOCIAL STRUCTURE AFTER A BOMBING DISASTER Discusses various elements in predicting the social and political consequences of a large-scale bombing attack. Examines the effects of a bombing upon the organization of society, the distribution of political and economic power, and the institutions relevant to the effective functioning of society. 30 pp. Published in <u>World Politics</u> , Jan. 1956.	P-674 Aug. 18, 1955
Hirshleifer, J. with J. C. DeHaven	FEATHER RIVER WATER FOR SOUTHERN CALIFORNIA For abstract, see same title under DeHaven.	P-1034 Feb. 20, 1957
Hirshleifer, J.	AN ISOQUANT APPROACH TO INVESTMENT DE- CISION PROBLEMS Attempts to solve, through the use of iso- quant analysis, the problem of optimal in- vestment decisions. The principles stated in Irving Fisher's <u>The Theory of Interest</u> are reviewed in connection with the rules of behavior currently proposed by economists to guide business-investment decisions. Con- cludes that (1) the Present-value Rule for investment decisions is correct, but in a limited sense, and (2) the Internal-rate- of return Rule for the multi-period case is not generally correct if the usual defi- nition of the internal rate is adopted. 45 pp. Illus. Published under the title "On the Theory of Optimal Investment Decision" in <u>The Journal of Political Economy</u> , Aug. 1958.	P-1158 Aug. 23, 1957

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Hirshleifer, J.	DOES EFFICIENT PEAK-LOAD PRICING INVOLVE DISCRIMINATION? A commentary on P. O. Steiner's article, "Peak Loads and Efficient Pricing." Agrees with Steiner's solution of the problem of peak-load efficient pricing, but disagrees with his statement that the solution involves discriminatory prices. 12 pp. Illus. Published under the title "Peak Load and Efficient Pricing: Comment" in <u>The Quarterly Journal of Economics</u> , Aug. 1958.	P-1169 Oct. 9, 1957
Hirshleifer, J.	WATER SUPPLY FOR SOUTHERN CALIFORNIA: RATIONALIZATION OR EXPANSION? An attempt to determine whether the benefits from the Feather River Project justify the incremental cost of extending the aqueduct system to the Southern Calif. Coastal Plain and Coastal San Diego Co. Service Area. 24 pp. Tables. Published in the <u>Proceedings of the 31st Conference of the Western Economic Association</u> , 1960.	P-2057 Aug. 12, 1960
Hirshleifer, J.	RISK, THE DISCOUNT RATE, AND INVESTMENT DECISIONS Presents a simple market theory of risk, modelled on Fisher's treatment of time-preference and interest. Shows how the criterion of maximizing present value must be modified or generalized when risky investments are considered. 14 pp. Illus. Presented before the American Economic Association at St. Louis, Mo., Dec. 28-30, 1960, and published in the <u>Proceedings of that association</u> , May 1961.	P-2143 Nov. 21, 1960

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Hirshleifer, J. and J. DeHaven & J. Milliman	WATER SUPPLY: ECONOMICS, TECHNOLOGY AND POLICY University of Chicago Press, Chicago, Ill., 378 pp. Illus. \$7.50. Contrasts two techniques as methods of meet- ing water demands--improvement in allocation of existing water supplies and development of additional supplies. Two case studies of crucial water decisions, the Cannonville Pro- ject in N.Y. and the Feather River Project in Calif., point up the authors' views on tech- nical, economic, and legal aspects of water- supply decisions.	Book, 1960
Hirshleifer, J.	AN EXPOSITION OF THE EQUILIBRIUM OF THE FIRM: SYMMETRY OF THE PRODUCT AND FACTOR ANALYSES A discourse on an imperfect symmetry in the standard textbook presentation of the equi- librium of the firm. Attempts to provide a more correct treatment of both product and factor units for the equilibrium of the firm and indicates a rather significant ambiguity in the usual concept of marginal cost. 9 pp. Published in <u>Economica</u> , Aug. 1962.	P-2410 Sept. 1961
Hirshleifer, J.	THE FIRM'S COST FUNCTION: A SUCCESSFUL RECONSTRUCTION? An evaluation of a reconstruction of the firm's cost function proposed by Armen Alchian in P-1449, <u>Costs and Outputs</u> . The relevance of this reconstruction is ex- amined for a variety of different situa- tions. The study also shows how the reconstruction can be reconciled with the orthodox model. 46 pp. Illus. Published in <u>The Journal of Business</u> , Feb. 1962.	P-2448 Sept. 1961

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Hitch, C. J.	PLANNING DEFENSE PRODUCTION A talk on the production problems of an advanced defense economy. Considers the method in which the defense budget is allocated among the production of the various goods and services contributing to the nation's security. 12 pp. Published in the <u>Proceedings of the American Economic Association</u> , May 1950. Presented before the American Economic Assn. in New York City, Dec. 27, 1949.	P-105 Sept. 29, 1949
Hitch, C. J.	SUBOPTIMIZATION IN OPERATIONS PROBLEMS An analysis of the possibilities, limitations, and dangers of suboptimizing. The utility of certain concepts and postulates of economic theory for improving the selection of criteria in operations research problems is examined. 24 pp. Illus. Published in <u>Operations Research for Management</u> , ed. by J. F. McCloskey and F. N. Trefethen, The Johns Hopkins Press, Baltimore, 1954, \$7.50; and in the <u>Journal of the Operations Research Society of America</u> , May 1953. Presented before the National Bureau of Standards at Washington, D.C., Nov. 17-18, 1952. (See Supplement, P-386, under McKean.)	P-326 Nov. 18, 1952
Hitch, C. J.	AN APPRECIATION OF SYSTEMS ANALYSIS A description of military systems analysis as a framework for combining the knowledge of experts in many fields to reach solutions which transcend any individual expert's judgment. 26 pp. Published in the <u>Journal of the Operations Research Society of America</u> , Nov. 1955. Presented before that Society Aug. 15, 1955 at Los Angeles, Calif.	P-699 Aug. 18, 1955
Hitch, C. J.	ECONOMICS AND MILITARY OPERATIONS RESEARCH Examines some of the relations between operations research and economics. Suggests that an alliance between economics and military or governmental operations research may result in a new branch of endeavor, namely an economics of government expenditure. 25 pp. Published in <u>The Review of Economics and Statistics</u> , Aug. 1958.	P-1250 Jan. 8, 1958

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Hitch, C. J.	THE CHARACTER OF RESEARCH AND DEVELOPMENT IN A COMPETITIVE ECONOMY A discussion of how R&D can be used in our competitive economy to advance military technology. 13 pp. Presented before the National Science Foundation at Washington, D.C., May 20, 1958	P-1297 May 13, 1958
Hitch, C. J.	FURTHER COMMENT ON ECONOMICS AND OPERATIONS RESEARCH A defense of the criterion used in the author's article "Economics and Military Operations Research" (P-1250), published in <u>The Review of Economics and Statistics</u> , Aug. 1949. 4 pp.	P-1758 July 22, 1959
Hitch, C. J.	NATIONAL SECURITY POLICY AS A FIELD FOR ECONOMICS RESEARCH A review of national security areas where economics research can contribute substantially to the solution of problems. The areas discussed are: analysis and measurement of economic strength for war; implications of large peacetime defense budgets; size of the defense budget; efficiency in using and managing defense resources; institutional arrangements to promote efficiency; military R&D; military logistics; military alliance; economic warfare; mobilization; civil defense and recuperation; disarmament; and problems of access to data. 30 pp. Published in <u>World Politics</u> , April 1960.	P-1776 Aug. 19, 1959
Hitch, C. J. and R. N. McKean	THE ECONOMICS OF DEFENSE IN THE NUCLEAR AGE Harvard University Press, Cambridge; Mass. 442 pp. Illus. \$9.50. Considers the economic problems of defense at three levels: the quantity of national resources available, now and in the future; the proportion of these resources allocated to national security purposes; and the efficiency with which the allocated resources are used by the defense departments. Considers the alternative policies existing at each level from which officials must choose.	Book, 1960 & R-346 (AD 243098) March 1960

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and Date

Hitch, C. J.

ON THE CHOICE OF OBJECTIVES IN SYSTEMS STUDIES

P-1955
Mar. 30, 1960

A discourse on broadening our horizons and ambitions when objectives for systems studies are chosen. 13 pp. Presented before the Systems Symposium at Cleveland, Ohio, April 26-28, 1960, and published in the proceedings of the symposium.

Hitch, C. J.

UNCERTAINTIES IN OPERATIONS RESEARCH

P-1959
April 25, 1960

A discussion of the uncertainties faced by operations researchers in determining a preferred strategy. The author is skeptical of general purpose solutions to the problems of making good decisions for uncertain contingencies. 13 pp. Presented before the Operations Research Society of America at New York, May 19-26, 1960.

Hitch, C. J.

THE USES OF ECONOMICS

P-2179
Nov. 17, 1960

Address given at ceremonies dedicating the Center for Advanced Study of the Brookings Institution at Washington, D. C. Ways are discussed in which economics can be useful. Both the traditional and the less traditional areas in the realm of public policy are described to show the type of problems in which economics can be useful. 21 pp.

Hitch, C. J.
and
R. N. McKean

WHAT CAN MANAGERIAL ECONOMICS CONTRIBUTE TO ECONOMIC THEORY?

P-2155
Dec. 1, 1960

Examines the potential feedbacks from management economics to economic theory, indicated in the form of improvements in production functions. The business behavioral inputs to economic theory are discussed, together with how managerial economics may affect these inputs. Attempts to develop a theory of government behavior to supplement the theory of the firm. 14 pp. Presented before the American Economic Assn. at St. Louis, Mo., Dec. 28-30, 1960.

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Hoag, M. W.	THE RELEVANCE OF COSTS IN OPERATIONS RESEARCH Divides operations research into studies in which (1) costs are largely irrelevant, (2) a measure of real cost internal to the analysis is required, and (3) real costs must be approximated by money cost. 18 pp. Illus. Published in <u>Operations Research</u> , Aug. 1956. Presented before the Operations Research Society of America at Washington, D.C., May 10, 1956.	P-820 April 13, 1956
Hoag, M. W.	AN INTRODUCTION TO SYSTEMS ANALYSIS A speech on systems analysis delivered to an Air Force group visiting RAND. Systems analysis is defined as a systematic examination of a problem of choice in which each step of the analysis is made explicit wherever possible. The history of systems analysis and its application to military problems are discussed. 22 pp. Illus.	RM-1678 (AD 101071) April 18, 1956
Hoag, M. W.	IS "DUAL" PREPAREDNESS MORE EXPENSIVE? A discourse on whether military dual preparedness (i.e., an ability to fight limited wars without a superbomb, as well as an ability to retaliate overwhelmingly with it) is more expensive than single preparedness. 9 pp. Published in the <u>Bulletin of the Atomic Scientists</u> , Feb. 1957.	P-922 Aug. 14, 1956
Hoag, M. W.	WHAT IS A SYSTEM? An attempt to define a "system" as a set of inter-related actions about which policy decisions are made. The difference between the administrator and analyst's approach in defining a system is discussed, and several examples are given to illustrate this variance. 6 pp. Published in <u>Operations Research</u> , June 1957.	P-1035 Mar. 5, 1957
Hoag, M. W.	ECONOMIC PROBLEMS OF ALLIANCE Considers how economic problems of alliance can be analyzed. Narrow tests of economic efficiency in military allocations are seen to be sharply restricted in applicability, while a broad formulation in terms of game (cont'd.)	P-1080 May 8, 1957

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Hoag (cont'd.)	theory avoids these restrictions at the overriding cost of unworkability. The traditional treatment of civilian trade problems is suggested as a compromise. 37 pp. Condensed version published in <u>The Journal of Political Economy</u> , Dec. 1957.	
Hoag, M. W.	NATO DETERRENT VS. SHIELD A support of General Norstad's appeal to maintain sizable land forces in Europe that disagrees with his contention that such forces complement strategic airpower effectively in total war. 29 pp. Condensed version published in <u>Foreign Affairs</u> , Jan. 1958.	P-1103 June 13, 1957
Hoag, M. W.	NATO DETERRENT VS. SHIELD A discussion of the argument within NATO for supplementing strategic air forces with strong tactical forces. Discusses advantages and disadvantages of total war and sharply limited war in Europe. 32 pp.	RM-1926 June 1957
Hoag, M. W.	OPERATIONS RESEARCH: A NEW SCIENCE? Discussion of operations research as a new science of decisionmaking. The role of analytic models in OR is considered, together with computational, criterion, and data problems. 10 pp. Published in <u>The Journal of Business</u> , July 1957. Presented before the Western Spectroscopy Assn., at Santa Monica, Calif., Jan. 24, 1957.	P-1030 July 1957
Hoag, M. W.	ECONOMICS OF A DUAL CAPABILITY A discussion of a "dual capability," defined as a military capability to hit prospective enemies hard with either strategic air bombing or with land armies complemented by supporting air and naval units. 11 pp. Published in <u>Ordnance</u> , March-April 1958. Presented before the American Ordnance Assn., N.Y.C., Dec. 4, 1957.	P-1195 Nov. 4, 1957
Hoag, M. W.	ON NATO POOLING A review of two short books on NATO economics. The desirability of concentrating new efforts to pool resources in NATO upon the research and development area is appraised, and burden-sharing problems are briefly analyzed. 13 pp. Published in <u>World Politics</u> , April, 1958.	P-1242-RC Dec. 30, 1957

HOHOAuthor(s)Title & AbstractPublication No.
and Date

Hoag, M. W.

THE PLACE OF LIMITED WAR IN NATO STRATEGY

P-1566
Dec. 4, 1958

A general consideration of the way in which limited war fits into NATO strategy. The official view that a limited-war capability is a by-product of other capabilities is criticized because the main products are questionable. Alternatives to a limited-war strategy and the issue of nuclear vs. primarily non-nuclear limited-war preparedness, are appraised. 48 pp. Presented before a Conference on NATO strategy at Princeton University, Princeton, N.J., Jan. 13-16, 1959. Published in NATO and American Security, Klaus Knorr (ed.), Princeton University Press, 1959.

Hoag, M. W.

SOME POLITICAL AND ECONOMIC ASPECTS OF
OVERSEAS MISSILE BASESP-1571
Dec. 8, 1958

A brief consideration of some questions that the State Dept. should put to military planners about intermediate-range ballistic missile installations in allied countries. 10 pp. Presented to the World Affairs Institute at Pasadena, Calif., Dec. 8, 1958.

Hoag, M. W.

SOME COMPLEXITIES IN MILITARY PLANNING

P-1531
Dec. 11, 1958

An application of economic theory to show some prevailing oversimplifications in military discussion. Requirements and priority approaches to military allocations are criticized, and the complications introduced by increasing and interdependent returns are illustrated. Some implications for defense doctrine and organization are presented. 36 pp. Published in World Politics, July 1959.

Hoag, M. W.

THE CONTENT OF ECONOMICS

P-1692
May 8, 1959

A brief sketch of economics for operations researchers. Its definition, scope, limitations, and potential contributions to operations research are discussed. 11 pp. Presented as part of a panel discussion to the Operations Research Society of America at Washington, D.C., May 15, 1959.

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Hoag, M. W.	WHAT INTERDEPENDENCE FOR NATO? Discusses the desirable strategic division in labor in NATO, and argues the case for a radical division. By concentrating strategic airpower and its defense in America, and forgoing any renovation of European tactical capabilities for a strike-second nuclear case, economies are sought that will permit building a primarily nonnuclear capability in Europe backed by deterrent capabilities in America. 36 pp. Published in <u>World Politics</u> , April 1960, and in <u>Survival</u> May-June, 1960.	P-1748 July 13, 1959
Hoag, M. W.	ON STABILITY IN DETERRENT RACES Discusses the fundamentals of deterrence and defense, including the implications of the arms race, using a hypothetical situation. 35 pp. Published in <u>World Politics</u> , July 1961. Revision published in <u>The Revolution in World Politics</u> , Morton Kaplan (ed.), John Wiley & Sons, New York, 1962.	P-2188 Jan. 10, 1961 Revised Jan. 1962 as P-2188-1
Hoag, M. W.	ON LOCAL WAR DOCTRINE Examines doctrinal fundamentals that underlie various policy positions on limited war. The polar opposites of "Pure Massive Retaliation" and "Complete Graduated Deterrence" are contrasted and criticized, and the limiting process in local war is discussed. Differences among the official "New Look" of 1953, 1961, and (conjecturally) of 1965 are speculated about, and current open issues are listed. 26 pp. Illus. Presented before the Consultant Panel of the Operations Evaluation Group, Woods Hole, Mass., June 15, 1961.	P-2433 Aug. 1961

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Author(s)

Hoag, M. W.

Title & Abstract

MISSILES FOR FRANCE?

A case against American aid to the French national nuclear strike force. The example such aid would set to others, the divisive impact within European NATO, and the incompatibility of national nuclear operations with an American city-sparing strategy are analyzed. Fuller nuclear partnership within NATO, possibly including a NATO deterrent force, is sketched as a desirable alternative to aid to national nuclear forces. 20 pp. Published as "Nuclear Policy and French Intransigence," Foreign Affairs, Jan. 1963.

Publication No.
and Date

P-2594-1
June 21, 1962

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Author(s)

Title & Abstract

Publication No.
and Date

Hoeffding, O.

THE NEW SOVIET PLANS FOR AGRICULTURE AND
CONSUMPTION

RM-1173
(ATI 210803)
Dec. 13, 1953

A preliminary appraisal of recent Soviet measures to expand production and sales of consumer goods and to increase output and marketings in selected branches of agriculture. Deals particularly with the intended effects of these measures on consumption levels and prospects of their realization, their likely impact upon Russian resource allocation, and Soviet foreign policy and internal political conditions. 60 pp. Tables.

Hoeffding, O.

SOVIET NATIONAL INCOME AND PRODUCT IN 1928
Columbia University Press, New York. 160
pp. Tables. \$3.75. (A companion book
to Bergson's Soviet National Income and
Product, and Galenson's Labor Productivity
in Soviet and American Industries.)

1954

Closely examines the national income and product of the Soviet Union in 1928. The study of 1928 is important from the standpoint that the Soviet Union was as yet unaffected by the combined and cumulative effects of the Five-Year Plans and not until 1928 had the Soviet economy completed its phase of reconstruction. Also published as R-255 (AD 90414), Jan. 1954.

Hoeffding, O.

RECENT TRENDS IN SOVIET TRADE

RM-1567
(AD 87819)
Oct. 10, 1955

An attempt to determine whether the USSR has shown recent evidence of genuinely greater trade-mindedness than it displayed under Stalin. Emphasizes Soviet trade with the West since 1953 and discusses salient developments in bloc trade. 30 pp. Also published as P-739, Sept. 15, 1955, 26 pp. and in The Annals of the American Academy of Political and Social Science, Jan. 1956.

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Author(s)

Title & Abstract

Publication No.
and Date

Hoeffding, O.

SOVIET INDUSTRY FIVE YEARS AFTER STALIN

P-1354
April 28, 1958

An appraisal of the current condition of Soviet industry with emphasis on (1) the tendency for the Soviet rate of growth of industrial output to decline in recent years and (2) the so-called "scrapping of the Sixth Five-Year Plan." 10 pp. Published in The New Leader, June 2, 1958.

Hoeffding, O.

THE CONDITION OF THE SOVIET ECONOMY

RM-2202
(AD 156017)
July 1, 1958

An analysis of the present state of the Soviet economy to determine what has happened that might warrant a major re-appraisal of the present and future economic strength of the Soviet Union. Suggests that current Soviet economic problems are largely related to simultaneous pursuit of several major objectives, which all compete for resources and impose a certain strain on the economy. The economy appears to provide an adequate base for the military and political challenges offered by the USSR. 18 pp. Tables.

Hoeffding, O.

SOVIET STATE PLANNING AND FORCED INDUSTRIALIZATION AS A MODEL FOR ASIA

P-1450
Aug. 5, 1958

An appraisal of the relevance and applicability to Asia's problems of Soviet experience in rapid industrialization under state planning. Discusses how Asian countries can profit from Soviet planning experience, and what alternatives are open to them. 30 pp.

Hoeffding, O.

ON THE PREVENTION OF SURPRISE ATTACK

T-95
Sept. 10, 1958

Translation of a Russian article by Maj. Gen. N. Talenskii which discusses the Soviet proposal to prevent surprise attack by one state against another. The proposal represents one part of a whole system of measures advanced by the Soviet government to alleviate international tension and end the armaments race. 7 pp.

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Title & Abstract

Publication No.
and Date

Hoeffding, O.

THE SOVIET INDUSTRIAL REORGANIZATION OF
1957

P-1569
Dec. 12, 1958

A discussion of several aspects of the re-organization of industrial administration and planning carried out in the Soviet Union in 1957. Considers the 1957 reform both a radical and conservative measure. 23 pp. Published in The American Economic Review, May 1959. Presented before the American Economic Assn. at Chicago, Ill., Dec. 27, 1958.

Hoeffding, O.

THE SOVIET SEVEN YEAR PLAN

P-1607
Feb. 2, 1959

Discusses the new Soviet Seven Year Plan for 1959-1965 and Krushchev's prediction that in 15 years the USSR will "take first place in the world." The feasibility of Soviet industrial and agricultural goals is examined with the rate at which industrial progress is providing Soviet political strategy with the material means for progressing toward the outcome postulated by Marxism-Leninism. 19 pp. Published in Foreign Affairs, April 1959.

Hoeffding, O.
and
A. E. Nimitz

SOVIET NATIONAL INCOME AND PRODUCT,
1949-1955

RM-2101
(AD 213477)
April 6, 1959

Part of a broader investigation to determine real changes in the size and structure of Soviet gross national income and product from 1949-1955. Gives 1949-1955 estimates calculated in current rubles and at established prices. The data cover a period of sudden and substantial changes in price levels as well as in the relative price structure. 247 pp. Tables.

HOHOAuthor(s)Title & AbstractPublication No.
and Date

Hoeffding, O.

RECENT EFFORTS TOWARD COORDINATED ECONOMIC PLANNING IN THE SOVIET BLOC

P-1768
Aug. 7, 1959

A review of the ten-year history of the Soviet Bloc's Council of Economic Mutual Aid (CEMA). Describes the first two phases of CEMA (1949-1953 and 1954-1957) as unimpressive. In CEMA's third phase, the prospect of Soviet primary products will enable Eastern Europe to start correcting some of the distortions inherited from earlier years, but a spectacular economic growth should not be expected as a result. 24 pp.

Hoeffding, O.
with
A. Bergson &
H. Heymann, Jr.SOVIET NATIONAL INCOME AND PRODUCT,
1928-1948: REVISED DATA
For abstract, see same title under
Bergson.RM-2544
(AD 253000)
Nov. 15, 1960

Hoeffding, O.

SINO-SOVIET ECONOMIC RELATIONS IN RECENT YEARS

P-2087
Dec. 15, 1960

Discusses the Soviet contribution to China's economic development. Aspects examined are: the history of China's association with the Soviet effort to promote economic integration in the bloc; bilateral trade relations with the Soviets; China's debtor status with the USSR; and the highly fluctuating course of Sino-Soviet trade from 1957-1959. 27 pp. Tables. Presented before the Third International Sovietological Conference at Tokyo, Japan, Sept. 19-24, 1960 and published in its papers. Also published in Ost Europa, May 1961.

Hoeffding, O.

THE 22nd CONGRESS OF THE CPSU: SOME DOMESTIC IMPLICATIONS

P-2493
Dec. 1961

A discourse on the 22nd Congress which is described as a congress preoccupied with reshaping the past and denouncing the failings, errors, and crimes of the Party's past leaders. Examines the agenda of the congress and its outline of the size and structure of the Soviet economy between 1970 and 1980. 12 pp. Presented before the Brookings Institution Seminar on the 22nd Communist Party Congress, at Washington, D. C., Dec. 1, 1961.

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Author(s)

Title & Abstract

Publication No.
and Date

Hoffenberg, M.
with
N. M. Kaplan

APPROACHES TO SOVIET INTER-INDUSTRY
RELATIONSHIPS
For abstract, see same title under
Kaplan.

RM-1202
(AD 114131)
Mar. 2, 1954

Hoffenberg, M.
with
K. J. Arrow,
et al.

A TIME SERIES ANALYSIS OF INTERINDUSTRY
DEMANDS
For abstract, see same title under
Arrow.

1959

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Author(s)

Title & Abstract

Publication No.
and Date

Hoffman, F. S.

COMMENTS ON THE MODIFIED FORM OF AIRCRAFT
PROGRESS FUNCTION

RM-464
Oct. 4, 1950

An examination of the aircraft progress curve (introduced by the Stanford Research Institute) to determine whether this modification shows a clear superiority over the original and simpler form of the curve in terms of the fit of the curves to the observed data. 15 pp.

Hoffman, F. S.

THE ECONOMIC ANALYSIS OF DEFENSE: CHOICE
WITHOUT MARKETS

P-1582
Dec. 19, 1958

The application of some of the more general concepts and propositions of economic theory to military decisionmaking, with particular attention to the allocation of scarce resources for research among competing uses. 18 pp. Published in The American Economic Review, May 1959. Presented before the American Economic Association at Chicago, Ill., Dec. 27, 1958, and published in the proceedings of the Association.

Hsia, R.

GOVERNMENT ACQUISITION OF AGRICULTURAL
OUTPUT IN MAINLAND CHINA, 1953-1956

RM-2207
(AD 211940)
Sept. 3, 1958

An estimate of government acquisitions of agricultural products based on data from tax collections and government purchases. After allowing for relief payments in kind and government sales to the agricultural sector, net government acquisitions are found to have risen from 9.6 billion yuan in 1953 to 12.4 billion yuan in 1955, and declined to 10.4 billion yuan in 1956. 102 pp. Tables.

Isard, W.
with
F. T. Moore

REGIONAL SCIENCE TECHNIQUES APPLICABLE
TO REGIONAL PLANNING
For abstract, see same title under Moore.

P-1099
June 4, 1957

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<u>Author(s)</u>	<u>Abstract & Title</u>	<u>Publication No. and Date</u>
Johnson, D. G.	A STUDY OF THE GROWTH POTENTIAL OF AGRICULTURE OF THE USSR An investigation of the difficulties in expanding Soviet agricultural output, the possibilities for increasing the available supply of agricultural products, and the input savings and labor uses in USSR agriculture. 72 pp. Tables.	RM-1561 (AD 87817) Oct. 3, 1955
Johnson, D. G. and Arcadius Kahan	THE SOVIET AGRICULTURAL PROGRAM: AN EVALUATION OF THE 1965 GOALS Evaluates the feasibility of the Soviet Seven Year Plan goals for 11 basic agricultural commodities. The planned increase in aggregate output of these commodities between 1958 and 1965 is 62 per cent when outputs are valued at 1958 procurement prices. Over four-fifths of the planned increase is accounted for by feed and livestock products. Estimates that industrial crop goals can probably be met if they receive top priority, that the estimated increase in feed might permit an increase in livestock output of 36 per cent (far below plan), and that, assuming normal weather, aggregate output of the 11 commodities might increase by 24 per cent. 119 pages. Tables.	RM-2848-PR (AD 275785) May 1962
Johnson, L. L.	THE THEORY OF HEDGING AND SPECULATION IN COMMODITY FUTURES Outlines the mechanics and purposes of a commodity-futures market, discusses and appraises the theory of hedging and speculation, presents a reformulated concept of hedging, and constructs a model that may both assist in clarifying the concepts of hedging and speculation and contribute to a better understanding of certain market phenomena. 31 pp. Illus. Presented before the Econometric Society at Chicago, Ill., Dec. 27, 1958.	P-1308 March 6, 1959

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Kaplan, N. M. and J. H. Blackman, H. Heymann, Jr., A. D. Redding & N. W. Rodin	A TENTATIVE INPUT-OUTPUT TABLE FOR THE USSR, 1941 A preliminary input-output table for the USSR, which is consistent with the 1941 plan structure of the Soviet economy. De- tailed sources and methods are presented in a series of appendices. 153 pp. Illus.	RM-924 (ATI 210756) Sept. 2, 1952
Kaplan, N. M.	ARITHMANCY, THEOMANCY, AND THE SOVIET ECONOMY A review and critique of the Jasny estimates of real Soviet national product and its al- locations. 36 pp. Illus. Published in <u>The</u> <u>Journal of Political Economy</u> , April 1953.	P-332 Mar. 6, 1953
Kaplan, N. M. and M. Hoffenberg	APPROACHES TO SOVIET INTER-INDUSTRY RELATIONSHIPS Uses the U.S. 1947 matrix of input-output coefficients to generate USSR final demands (or gross outputs) from USSR gross outputs (or final demands). 30 pp. Tables.	RM-1202 (AD 114131) March 2, 1954
Kaplan, N. M. and W. L. White	A COMPARISON OF 1950 WHOLESALE PRICES IN SOVIET AND AMERICAN INDUSTRY An investigation of the data, sources, and methods required to compile price ratios for approximately 2,000 commodities pro- duced in the U.S. and USSR. This com- parison of ruble-dollar wholesale prices may serve as an aid in obtaining informa- tion on the Soviet economy and on inter- national price index numbers. 356 pp. Illus.	RM-1443 (AD 91181) May 1, 1955
Kaplan, N. M. and E. S. Wainstein	A COMPARISON OF SOVIET AND AMERICAN RETAIL PRICES IN 1950 A summary of previous work on the retail prices of food and manufactured goods. Shows that in 1950 the retail purchasing power of the ruble was on the order of 5 or 6 cents, and that the real wage in the Soviet Union was 12 to 16 per cent of the real wage in the U.S. 41 pp. Illus. Also published as P-901, Oct. 3, 1956 and in <u>The</u> <u>Journal of Political Economy</u> , Dec. 1956.	RM-1692-1 (AD 100024) Oct. 3, 1956

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Kaplan, N. M.	COLLECTIVE FARM INVESTMENT IN THE USSR One of a series of studies concerned with Soviet capital formation from 1923/24 to date. The present study discusses basic collective farm investment in the USSR, the Agricultural Bank loans and bank-financed investment, and some estimates of collective farm investment for specific years. 55 pp. Tables.	RM-1733 (AD 111505) June 12, 1956
Kaplan, N. M. and E. S. Wainstein	AN ADDENDUM TO PREVIOUS USSR-U.S. RETAIL PRICE COMPARISONS A supplement to RM-1692-1 The authors have recomputed the average ruble-dollar price ratios with new weights recently published in a Soviet statistical handbook. They have found that the previous results in connection with all commodities and services were not appreciably affected. 3 pp. Tables. Published in <u>The Journal of Political Economy</u>, Dec. 1957 under the title "A Note on Ruble-Dollar Comparisons."	RM-1906 (AD 123547) May 13, 1957
Kaplan, N. M.	A COMPARISON OF CONSTRUCTION COSTS IN THE USSR AND U.S. A description of and commentary on a comparative study, made by the Stanford Research Institute, which attempts to obtain ruble-dollar price ratios for construction. The ratios are surprisingly low, and reasons are given why they are probably too low. 85 pp.	RM-1986 (AD 133033) Sept. 23, 1957
Kaplan, N. M.	COMMENTS ON WILES' RATIONALITY, THE MARKET, DECENTRALIZATION, AND THE TERRITORIAL PRINCIPLE A discussion of the theory of the rational allocation of resources and of the meaning of rationality. Enumerates possible conflicts between a rational allocation and economic growth. Some problems of proper incentives, tests of performance, and criteria for investment choice are stated. 10 pp. Presented before the Symposium on Economic Calculation and Organization in Eastern Europe, University of California at Berkeley, June 16, 1958.	P-1398 July 7, 1958

KAKAAuthor(s)Title & AbstractPublication No.
and Date

Kao, R. C.

NOTE ON PROGRAM UNCERTAINTY IN DYNAMIC
INVENTORY PROBLEMP-2376
July 19, 1961

A study of the dynamic inventory problem for a follow-on provisioning in which the program length is subject to uncertainty with a known distribution. Shows that under general cost conditions, the optimal policy is of the (S,s) type. This is true whether or not there exists a time lag in delivery provided that excess demand is always backlogged. The case of infinite program horizon is also briefly discussed. 10 pp. Published in Econometrica, April 1962.

Kao, R. C.

LINEAR PROGRAMMING

P-2514
Jan. 1962

Discusses the role of linear programming in solving the optimal diet problem, the theory of linear systems, theories relating to the computational aspect of linear programming, and some applications. 14 pp. Presented before the Mathematics Symposia for 1961-62 at Pasadena, Calif., Jan. 9, 1962.

Kao, R. C.

AGGREGATION OF MAGNITUDE JUDGMENTS

P-2463-1
Feb. 1962

An examination of the problem of aggregation of magnitude judgments by a group of individuals of the same set of stimuli. Necessary and sufficient conditions for the existence and the uniqueness of minimum-variance solutions are given for both ratio and interval scales. Discusses the computations needed for obtaining these solutions. 31 pp.

Kao, R. C.

USE OF COMPUTERS IN THE PROCESSING AND
ANALYSIS OF GEOGRAPHIC INFORMATIONP-2593
(AD 605965)
Aug. 1962

A survey of past and current quantitative research in geography and the use of high-speed computers. Classifies geographic problems and their relation to data reduction, data processing and special problems in computer technology. Discusses potential uses of computers in disciplines for which geographic data are essential and the role of the universal mapping system. Presented before the Conference on Cartography and Geodesy, National Academy of Sciences-National Research Council, in Washington, D.C. May 12, 1962. Published in The Geographic Review, Nov., 4, 1963.

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Kaplan, A. with A. Skogstad & M. A. Girshick	THE PREDICTION OF SOCIAL AND TECHNOLOGICAL EVENTS For abstract, see same title under Skogstad.	P-93 April 1, 1949
Kaplan, N. M.	THE LAW OF VALUE AND SOVIET ECONOMIC PLANNING A critical review of the comment in <u>The American Economic Review</u> (1944-1945) on a Soviet press release which asserted that, contrary to the views previously held in the Soviet Union, the law of value operates in socialist economics. 30 pp.	RM-488 (ATI 210347) Nov. 11, 1950
Kaplan, N. M.	THE CHOICE AMONG INVESTMENT ALTERNATIVES IN SOVIET ECONOMIC THEORY An examination of proposals made by Soviet economists on investment choice. Stresses the possibility of wide disagreement over the future course of Soviet economic policy in view of the lack of unanimity, the absence of official resolution, and the nature of the pro- posals. 22 pp. Published in <u>The Journal of Political Economy</u> , April 1952. Presented be- fore the Econometric Society at Chicago, Ill., Dec. 27, 1950.	P-177 Dec. 14, 1950
Kaplan, N. M.	THE CHOICE AMONG INVESTMENT ALTERNATIVES IN SOVIET THEORY A revision of P-177. Examines the fundamen- tal agreement of Soviet economists on a criterion for choice among investment al- ternatives, given the rate of investment. Also evaluates the fundamental agreement of the group with the "bourgeois" concept of the rate of interest. 95 pp.	RM-539 (ATI 210680) Feb. 8, 1951
Kaplan, N. M.	CAPITAL INVESTMENTS IN THE SOVIET UNION, 1924-1951 The first of several studies on Soviet capital formation. Considers the concep- tual and organizational aspects of Soviet capital formation which are prerequisite for interpreting Soviet data, together with basic data on annual investments. 218 pp. Illus.	RM-735 (ATI 210431) Nov. 28, 1951

<u>Author(s)</u>	<u>Abstract & Title</u>	<u>Publication No. and Date</u>
Johnson, L. L.	COMMUNICATIONS SATELLITES AND TELEPHONE RATES: PROBLEMS OF GOVERNMENT REGULATION Part of a continuing study of the economic and policy implications of communications satellites being conducted at RAND for NASA. This Memorandum attempts to determine how savings in the cost of using satellites will be passed on to the consumer of communications services. Analyzes the relationship between telephone costs and rates under government regulation, and suggests changes in regulation that would contribute to a more direct relationship. 125 pp. Illus.	RM-2845-NASA Oct. 1961
Johnson, L. L. and H. Averch	BEHAVIOR OF THE FIRM SUBJECT TO EXTERNAL REGULATORY CONSTRAINT Develops a theory of the monopoly firm seeking to maximize profit but which is subject to a constraint on its rate of return. Applies the analysis to the telephone industry to contribute to understanding market behavior. 25 pp. Illus. Published in the <u>American Economic Review</u> , Dec. 1962.	P-2488-1 March 1962
Johnson, L. L.	THE COMMERCIAL USES OF COMMUNICATION SATELLITES An abstract of RM-2845-NASA. Concludes that to maximize the effectiveness of our aid to underdeveloped countries, uses and costs of communications must be weighed against expenditures of technical assistance funds and foreign aid loans. 29 pp. Tables. Published in <u>California Management Review</u> , March 1963.	P-2601 (AD 604801) June 1962
Johnson, L. L.	ECONOMIC PROBLEMS OF ESTABLISHING A COMMUNICATIONS SATELLITE SYSTEM Suggests that a combination of satellite and conventional communications links appears to be superior, from a cost standpoint, to a system containing a large number of ground stations. 9 pp. Testimony given before the Subcommittee on Monopoly of the Senate Select Committee on Small Business, Aug. 3, 1961.	P-2647 Oct. 1962

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Kaplan, A. with A. Skogstad & M. A. Girshick	THE PREDICTION OF SOCIAL AND TECHNOLOGICAL EVENTS For abstract, see same title under Skogstad.	P-93 April 1, 1949
Kaplan, N. M.	THE LAW OF VALUE AND SOVIET ECONOMIC PLANNING A critical review of the comment in <u>The American Economic Review</u> (1944-1945) on a Soviet press release which asserted that, contrary to the views previously held in the Soviet Union, the law of value operates in socialist economics. 30 pp.	RM-488 (ATI 210347) Nov. 11, 1950
Kaplan, N. M.	THE CHOICE AMONG INVESTMENT ALTERNATIVES IN SOVIET ECONOMIC THEORY An examination of proposals made by Soviet economists on investment choice. Stresses the possibility of wide disagreement over the future course of Soviet economic policy in view of the lack of unanimity, the absence of official resolution, and the nature of the pro- posals. 22 pp. Published in <u>The Journal of Political Economy</u> , April 1952. Presented be- fore the Econometric Society at Chicago, Ill., Dec. 27, 1950.	P-177 Dec. 14, 1950
Kaplan, N. M.	THE CHOICE AMONG INVESTMENT ALTERNATIVES IN SOVIET THEORY A revision of P-177. Examines the fundamen- tal agreement of Soviet economists on a criterion for choice among investment al- ternatives, given the rate of investment. Also evaluates the fundamental agreement of the group with the "bourgeois" concept of the rate of interest. 95 pp.	RM-539 (ATI 210680) Feb. 8, 1951
Kaplan, N. M.	CAPITAL INVESTMENTS IN THE SOVIET UNION, 1924-1951 The first of several studies on Soviet capital formation. Considers the concep- tual and organizational aspects of Soviet capital formation which are prerequisite for interpreting Soviet data, together with basic data on annual investments. 218 pp. Illus.	RM-735 (ATI 210431) Nov. 28, 1951

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Jones, W. M. and M. B. Shapiro & N. Z. Shapiro	THE FLIGHT OPERATIONS PLANNER A study that examines the problems involved in planning the operations of large numbers of high-performance aircraft and describes the role of the Flight Operations Planner (FLIOP). This is a digital computer program designed to reduce the amount of time and effort necessary in calculating detailed flight plans for individual aircraft. Techniques described can be applied to any fixed-wing-type aircraft. 98 pp. Illus.	RM-2415 (AD 227738) July 16, 1959
Jones, W. M. and M. B. Shapiro	THE FLIGHT OPERATIONS PLANNER, ADDENDUM TO RM-2415 Since the earlier study, additional features have been incorporated into the digital computer program. They provide information about course and distance from a known point, allow the user to designate enroute points, and change the method of determining winds so that the results are a more accurate approximation of the effect of the aircraft's motion on the standard vector deviation quantities used. Discusses certain technical operations of the routine of the IBM 704. 27 pp. Illus.	RM-2525 (AD 237155) Feb. 9, 1960
Kahan, Arcadius with D. G. Johnson	THE SOVIET AGRICULTURAL PROGRAM: AN EVALUATION OF THE 1965 GOALS For abstract, see same title under Johnson.	RM-2848-PR (AD 275785) May 1962
Kain, J. F. and J. H. Niedercorn	CHANGES IN THE LOCATION OF FOOD AND GENERAL MERCHANDISE STORE EMPLOYMENT WITHIN METROPOLITAN AREAS, 1948-1958 For abstract, see same title under Niedercorn.	P-2614-1 Aug. 15, 1962
Kain, J. F. and J. H. Niedercorn	AN ECONOMETRIC MODEL OF METROPOLITAN DEVELOPMENT For abstract, see same title under Niedercorn.	P-2663 (AD 292170) Dec. 1962

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Kaplan, N. M.	SOME METHODOLOGICAL NOTES ON THE DEFLATION OF CONSTRUCTION	P-1243 May 15, 1959
	A description of and commentary on some of the procedures used in the measurement of changes in the value of construction at constant prices. Proposes a redefinition of construction output and two alternative approaches to its measurement at constant prices. 36 pp. Tables. Published in the <u>Journal of the American Statistical Association</u> , Sept. 1959.	
Kaplan, N. M. and R. Moorsteen	AN INDEX OF SOVIET INDUSTRIAL OUTPUT	P-1848 Mar. 2, 1960
	Summarizes the results of a calculation of an index of Soviet industrial output (see RM-2495, below), and gives some comments on and application of these results. Part I presents the index of Soviet industrial output and discusses its nature and limitations. Part II considers the index in comparison with others, some dynamic aspects of Soviet industrial growth, indicated future rates of growth, an index of the output of final products, and estimated changes in productivity. 44 pp. Tables. Published in <u>The American Economic Review</u> , June 1960.	
Kaplan, N. M. and R. Moorsteen	INDEXES OF SOVIET INDUSTRIAL OUTPUT, VOLS. I AND II	RM-2495 (AD 241134) May 13, 1960
	Gives indexes of Soviet industrial output for the period from 1927/28 to 1958. Various applications and implications of the indexes are considered: (1) comparisons with indexes computed by other students of the Soviet economy and with official indexes; (2) determination of major trends in Soviet rates of growth; (3) measurements of industrial productivity changes. 305 pp. Tables. (Summarized in P-1848. See above.)	

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Title & Abstract

Publication No.
and Date

Kaplan, N. M.

THE STOCK OF SOVIET CAPITAL ON JANUARY 1,
1961

P-2248-1
Oct. 1961

A discussion of the Russian inventory and revaluation of capital (i.e., of buildings, structures, producers' durables, and other fixed assets in place), undertaken by the Russians in the last four months of 1959. This paper attempts to describe the revaluation procedures, to present and comment on the primary results, the 1960 capital values, and to draw some implications from the results--primarily some intertemporal and international comparisons of the distribution of capital. 110 pp. Tables. Presented before the Conference on Economics of Soviet Industrialization at Princeton, N.J., May 6-8, 1961.

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Klein, B. H. and W. H. Meckling	APPLICATION OF OPERATIONS RESEARCH TO DEVELOPMENT DECISIONS Discusses the difference between an efficient allocation of the development budget and the efficient conduct of a current operation. The problem is essentially not one of choosing among specific end-product alternatives, but of choosing a course as development proceeds. 18 pp. Published in <u>Operations Research</u> , May-June 1958. Presented before the Operations Research Society of America at Pittsburgh, Pa., Nov. 15, 1957.	P-1054 March 3, 1958
Klein, B. H.	WHAT'S WRONG WITH MILITARY R&D? Suggests more effective use of present and future resources committed to research and development. This can be done by decontrolling R&D to get varieties of ideas to ensure rapid advances in military technology and to develop a wide range of military capabilities to obtain military security. 26 pp. Published in <u>Fortune</u> , May 1958.	P-1267 March 7, 1958
Klein, B. H. and W. H. Meckling & E.G. Mesthene	MILITARY RESEARCH AND DEVELOPMENT POLICIES A study on military R&D to discover effective policies in providing military services with new weapons. Investigates development histories of many postwar fighters and bombers, most of the postwar engines, and all of the postwar bombing-navigation systems. Discusses the general nature of military R&D, the shortcomings of some present development policies, and an approach to weapon-system development. 32 pp.	R-333 (AD 226128) Dec. 4, 1958
Klein, B. H.	THE DECISION-MAKING PROBLEM IN DEVELOPMENT Indicates the aspects in which the decision-making problem in development is different from that in making production decisions. Conclusions of this paper are similar to Schumpeter's idea that the conditions required for an efficient allocation of existing resources and those for rapid economic progress are not the same. 30 pp. Illus. Presented at the Conference on Economic & Social Factors Determining the Rate & Direction of Inventive Activity, Univ. of Minnesota, May 12-14, 1960.	P-1916 Feb. 19, 1960

KLKLAuthor(s)Title & AbstractPublication No.
and Date

Klein, B. H. and W. H. Meckling & E. G. Mesthene	THE NATURE AND FUNCTION OF MILITARY R&D A description of research and development for the military. The need for many kinds of knowledge is indicated, along with the sequential character of research and development. Includes five rules of good development policy. 6 pp.	P-2147 Nov. 4, 1960
Klein, B. H. and J. M. Goldsen L. S. Lipson W. H. Meckling F. T. Moore & S. H. Reiger	COMMUNICATIONS SATELLITES AND PUBLIC POLICY: AN INTRODUCTORY REPORT Outlines the problems of public policy raised by the development of satellite communication techniques. Surveys satellite technology as of mid-1960; analyzes outstanding technical problems; estimates the probable cost of some of the more promising systems; analyzes future demand for overseas tele-communications under likely cost conditions and use possibilities. Also points out areas of federal responsibility, both international and domestic, including the problem of frequency allocation. Sections I and II were also issued as a separate report, RM-2709-NASA (see entry under Meckling) and it was later supplemented by RM-2778-NASA (also by Meckling). The latter publication may therefore be regarded as a supplement to the present RM. 146 pp. Illus.	RM-2925-NASA (AD 275936) Dec. 1961
Klein, B. H.	POLICY ISSUES INVOLVED IN THE CONDUCT OF MILITARY DEVELOPMENT PROGRAMS Discusses some issues involved in the conduct of military R&D. Attempts to determine why weapon systems undergo pronounced changes during development and when it can be determined if the product is going to work and how much it will really cost. Discusses the implications of these problems for R&D policies. 29 pp. Presented before the Conference on Economics of Research and Development, Columbus, Ohio, Oct. 15-17, 1962.	P-2648 (AD 292652) Oct. 1962

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Kershaw, J. A.	RECENT TRENDS IN THE SOVIET ECONOMY A study of recent Soviet economic trends and their influence on USSR rates of growth. Discusses the rates in effect before Stalin's death and the influence of the post-Stalin changes, together with future economic developments. 25 pp. Illus. Published in <u>The Annals of the American Academy of Political and Social Science</u> , Jan. 1956.	P-737 Sept. 8, 1955
Kershaw, J. A. and R. N. McKean	SYSTEMS ANALYSIS AND EDUCATION A study for the Ford Foundation to assess the possibilities of making quantitative comparisons of elementary and secondary educational systems to help administrators and others choose improved education systems. Indicates that more work needs to be done toward estimating the "input-output relationships" in education. 70 pp. Tables.	RM-2473 Oct. 30, 1959
Kershaw, J. A. and R. N. McKean	DECISIONMAKING IN THE SCHOOLS: AN OUTSIDER'S VIEW An attempt to present a framework that will help school board members and administrators to cope with many decisions. A numerical example is presented that illustrates an approach to decisionmaking and that shows how more nearly scientific comparisons of school policies can be made. 14 pp. Table. Published in <u>School Management</u> , May 1960.	P-1886 Jan. 10, 1960
Kershaw, J. A.	DIRECTIONS FOR FUTURE GROWTH OF THE SOVIET ECONOMY Describes the consistent and high rate of growth of the Soviet economy since 1929 in an attempt to determine its future general trend. The problems of the agricultural sector of the Soviet economy are compared to the success of the industrial sector. The impact of competition from other sectors of the economy on the rate of growth is discussed. 20 pp. Presented before the University of Indiana Conference on the Study of the Soviet Economy at Bloomington, Ind., Feb. 3-4, 1961.	P-2201 Jan. 23, 1961

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Kershaw, J. A. with R. N. McKean	WHAT TO DO ABOUT TEACHER SHORTAGES For abstract, see same title under McKean.	P-2458-1 Sept. 1962
Kershaw, J. A. and R. N. McKean	TEACHER SHORTAGES AND SALARY SCHEDULES McGraw-Hill Book Company, Inc., New York 203 pp. Illus. Paperback \$2.95; hard cover \$5.50. Reports on a survey of teacher shortages in the public secondary schools and provides an economic analysis of teacher compensation practices. Shortages are found to be in certain subject-matter skills for which salaries in other professions are becoming higher. Concludes that across-the-board increases in teacher salaries, if large enough to be effective, would impose un- acceptable tax burdens, would lead to un- economic use of resources, and would do little or nothing to readjust the balance of subject-matter specialties among teachers in training. What is needed is a teacher salary schedule which provides suitable subject-matter pay differentials.	Book, 1962 & RM-3009-FF Dec. 1961
Kessel, R. A. with A. A. Alchian	THE MEANING AND VALIDITY OF INFLATION- INDUCED BUSINESS PROFITS RESULTING FROM A LAG OF WAGES BEHIND PRICES For abstract, see same title under Alchian.	P-1488 Nov. 6, 1958

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Karcz, J. F.	SOVIET AGRICULTURAL MARKETINGS AND PRICES, 1928-1954 Part of a broader investigation to obtain price index numbers for deflating national income accounts in terms of current rubles. Attempts to show index numbers of Soviet agricultural prices from 1928 to 1954. Compares prices recieved by the farmer with what he must pay for retail goods and services, and suggests that, relative to the city worker, the peasant is as well off now as he was in 1928. 513 pp. Tables.	RM-1930 (AD 133013) July 2, 1957
Kaysen, C.	NOTE ON SOME HISTORIC PRINCIPLES OF TARGET SELECTION A summarization of target-selection criteria developed by the USAF. These principles are based on (1) military importance, (2) percentage of direct military use, (3) depth, (4) economic vulnerability, (5) physical vulnerability, and (6) location and size of targets. 10 pp.	RM-189 July 1949
Kaysen, C.	THE VULNERABILITY OF THE UNITED STATES TO ENEMY ATTACK: ELEMENTS OF AN UNCLASSIFIED RESEARCH PROGRAM IN THE SOCIAL SCIENCES Research on the characteristics of the U.S. as a present and future target. Discusses the available methods for estimating the effects of attacks in economic, political, and broad social terms, and the measures and costs to reduce these effects. 23 pp. Published in <u>World Politics</u> , Jan. 1954.	P-438 Oct. 4, 1953
Kaysen, C. with D. R. Fagg & R. N. McKean	WHAT THE FACTORY WORKER KNOWS ABOUT HIS FACTORY For abstract, see same title under Fagg.	P-1275 Feb. 2, 1958

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Kershaw, J. A.	PRODUCTIVITY AND WELFARE IN SOVIET AGRICULTURE An examination of the Jasny theses on Soviet agriculture that (1) labor productivity increased only slightly between 1928-1938 and (2) the welfare of farmer and urbanite was not higher in the later period. While essentially true, these are found to have possible misleading implications for prediction of future industrial output. 13 pp. Published in <u>The American Economic Review</u> , March 1950.	P-109 Nov. 3, 1949
Kershaw, J. A.	THE ECONOMICS OF SOVIET AGRICULTURE An evaluation of the Soviet agricultural program. Discusses: organization of agricultural production; results of collectivization; farm labor productivity; basic conditions of Soviet agricultural development; and effects of war on agriculture. 37 pp.	RM-336 (ATI 210628) Feb. 6, 1950
Kershaw, J. A. with J. Hirshleifer	THE ECONOMIC WAR POTENTIAL OF THE UNITED STATES AND THE SOVIET UNION For abstract, see same title under Hirshleifer.	RM-367 (ATI 210373) Apr. 17, 1950
Kershaw, J. A.	THE ECONOMIC WAR POTENTIAL OF THE USSR Presents the problems of methodology and concept of economic war potential of the Soviet Union. Considers some of the definitional and conceptual problems in general and three rough measures of the Soviet potential compared with that of the U.S. 12 pp. Published in the <u>Papers and Proceedings of the American Economic Review</u> , May 1951. Presented before the American Economic Association at Chicago, Dec. 1950.	P-182 Dec. 6, 1950
Kershaw, J. A.	SOVIET AGRICULTURAL PROSPECTS Speculates on the way the relevant magnitudes of economic effort are likely to interact and attempts to describe a probable economic structure of Soviet agriculture in 1970. 22 pp. Presented before a meeting at Arden House, Harriman, N.Y., May 23-25, 1952. Published in <u>Soviet Economic Growth</u> , A. Bergson (ed.), Row, Peterson & Co., Evanston, Ill., 1953. \$6.00.	P-278 Mar. 7, 1952

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Koopmans, T. C.	EFFICIENCY ASPECTS OF DISPERSAL OF POPULATION AND INDUSTRY	P-215 June 5, 1951
	An analysis of the efficiency aspects of dispersal, defined as a factor which diminishes the damage that can be inflicted by an enemy through a given application of resources to his attack. 14 pp. Presented before a Logistics Conference at RAND, July 7, 1951.	
Koopmans, T. C. (ed.)	ACTIVITY ANALYSIS OF PRODUCTION AND ALLOCATION, Cowles Foundation Monograph No. 13, John Wiley & Sons, New York, 404 pp. \$5.50.	1951
	Proceedings of a conference devoted to various aspects of a fundamental problem of normative economics--the best allocation of limited means toward desired ends. Contains 25 papers by different authors. Major divisions are: the theory of programming and allocation; applications of allocation models; mathematical properties of convex sets; and problems of computation.	
Koopmans, T. C.	ACTIVITY ANALYSIS AND ITS APPLICATIONS	P-352 Dec. 10, 1952
	An expository paper on activity analysis and its applications. 14 pp. Presented before a joint meeting of the American Economic Association and the Econometric Society at Chicago, Ill., Dec. 28, 1952. Published in <u>Papers and Proceedings of the American Economic Association</u> , May 1953.	
Koopmans, T. C. with M. Beckmann, <u>et al.</u>	THE ALLOCATION OF SWITCHING WORK IN A SYSTEM OF CLASSIFICATION YARDS For abstract, see same title under Beckmann.	P-448 Dec. 5, 1953
Laitin, Howard	SOME EFFECTS OF RADIATION ON MAN	P-2523 (AD 606660) Nov. 1961
	A review of certain aspects of radiation and its effects on man. Discusses such topics as (1) effects of radiation at the cellular level, (2) somatic effects resulting from injury at the biochemical and cellular level, and (3) recovery and long-term effects. 18 pp. Presented before various military reserve groups in the Los Angeles area, Nov.-Dec., 1961.	

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Leibenstein, H.	PROPOSAL FOR THE DEVELOPMENT OF A THEORY OF ECONOMIC GROWTH FOR A SOVIET-TYPE ECONOMY Outlines the general structure of a theory of Soviet economic growth, factors, variables, and relationships considered, and the role and meaning of the interest rate for resources allocation under different dictatorial objective functions. 61 pp.	RM-1342 (AD 86025) Sept. 15, 1954
Leibenstein, H.	ECONOMIC DEVELOPMENT AND THE RATE OF INTEREST UNDER DICTATORIAL CONDITIONS Investigates the importance of the interest rate in determining resource allocation under conditions of economic growth and dictatorially determined economic decisions (i.e., those made other than on the basis of consumers' sovereignty). Discusses these issues under both the aggrandizing and benevolent dictator. Formerly a part of RM-1342 (above). 27 pp.	P-808 Feb. 28, 1956
Lindblom, C. E.	BARGAINING: THE HIDDEN HAND IN GOVERNMENT An analysis of bargaining in government as a preferable method of decision-making which results in the public interest. Also discusses the distinction between bargaining and hierarchy in government. 46 pp.	RM-1434 Feb. 22, 1955
Lindblom, C. E. with A. O. Hirschman	ECONOMIC DEVELOPMENT, RESEARCH AND DEVELOPMENT, POLICYMAKING: SOME CONVERGING VIEWS For abstract, see same title under Hirschman.	P-1982 May 4, 1960
Lipson, L. S. with B. H. Klein, <u>et al.</u>	COMMUNICATIONS SATELLITES AND PUBLIC POLICY: AN INTRODUCTORY REPORT For abstract, see same title under Klein.	RM-2925-NASA (AD 275936) Dec. 1961

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Author(s)

Title & Abstract

Publication No.
and Date

Liu, T. C.

STRUCTURAL CHANGES IN THE ECONOMY OF THE
CHINESE MAINLAND, 1933 to 1952-1957

P-1590
Jan. 12, 1959

An economic analysis of the changes in China from 1933 to 1957. Discusses problems which lead up to establishing the communes in 1958. 15 pp. Tables. Presented to the American Economic Association at Chicago, Ill., Dec. 27, 1958 and published in the proceedings of the Association. Also published in the American Economic Review, May 1959.

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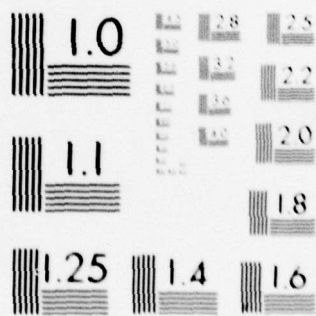
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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Lubell, H.	ISRAEL'S NATIONAL EXPENDITURE: SUMMARY OF RESULTS A summary chapter for a report entitled <u>Israel's National Expenditure, 1950-1954</u> (Published by the Falk Project for Economic Research, Jerusalem, Israel, 1958, \$2.00). The national expenditure figures presented show the development of the level of national welfare and the allocation of national resources. A summary breakdown of Israel's expenditures on gross national product is given, in current and constant (1952) prices. 48 pp. Tables.	P-1170 Sept. 9, 1957
Lubell, H.	MIDDLE EAST CRISES AND WORLD PETROLEUM MOVEMENTS A discussion of the major interruptions in the supply of oil from the Middle East-- Iran in 1951 and Suez in 1956. Surveys the effects of these crises on world petroleum production and shipping, examines the impact of a hypothetical future interruption of the flow of Middle Eastern oil to the western world. 51 pp. Illus. (P-1421, 33 pp. Tables. Published in <u>Middle Eastern Affairs</u> , Nov. 1958.)	RM-2185 (AD 156018) May 26, 1958 Revised as P-1421 July 8, 1958
Lubell, H.	REVIEW OF OEEC, <u>SOME ASPECTS OF THE EUROPEAN ENERGY PROBLEM, AND OEEC, EUROPE'S GROWING NEEDS OF ENERGY: HOW CAN THEY BE MET?</u> A review of two documents showing the basic contributions of the Organization for European Economic Cooperation to the discussions of Western Europe's growing shortage of energy resources that preceded the birth of Euratom. 5 pp.	P-1445 July 28, 1958
Lubell, H.	A REVIEW OF OEEC, OIL: <u>THE OUTLOOK FOR EUROPE, AND OEEC, EUROPE'S NEED FOR OIL: IMPLICATIONS AND LESSONS OF THE SUEZ CRISIS</u> A review of the last two reports of the Oil Committee of the OEEC. These publications constitute the best available summary of Western European views on the oil situation and reflect Europe's growing awareness of the extent of its stake in Middle East oil. 5 pp.	P-1461 Aug. 15, 1958

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Author(s)

Title & Abstract

Publication No.
and Date

Lubell, H.

A REVIEW OF ENERGY FORECASTS IN WESTERN EUROPE

P-1466
Aug. 21, 1958

A review of several reports concerning projecting European energy requirements and regional deficits two decades into the future. Reports are closely related by authorship, basic statistics, and methodology. 6 pp. Published in Econometrica, Jan. 1960.

Lubell, H.

THE PUBLIC AND PRIVATE SECTORS AND INVESTMENT IN ISRAEL

P-2176
Jan. 5, 1961

A description of Israel's economy "as private enterprise financed out of the public budget." Discusses: the three major ownership groups in the country; output and investment by public and private sectors; public financing of investment; and foreign aid and the financing of investment. 19 pp. Tables. Published in Middle Eastern Affairs, April 1961.

Lubell, H.

ENERGY POLICY AND SECURITY OF ENERGY SUPPLY IN WESTERN EUROPE

P-2209
Feb. 1, 1961

Discusses the shift in Western European energy policy from coal to overseas oil. Gives economic and political arguments for and against this change. The main criticisms of the experts' views are that the cost argument is overplayed, that freedom of consumer choice is really only a catchword, and that the security aspect is underplayed. 56 pp. Tables. Condensed version (formerly issued as P-1998, May 20, 1960) published in World Politics, April 1961.

Lubell, H.

THE SOVIET OIL OFFENSIVE

P-2360
June 26, 1961

Discusses the future prospects for increased Soviet oil exports. Examples are cited in examining the aims and techniques of the USSR in penetrating non-Soviet oil markets. Considers the implications for the West of the Soviet oil export drive. 34 pp. Published in the Quarterly Review of Economics and Business, Nov. 1961.

LULUAuthor(s)Title & AbstractPublication No.
and Date

Lubell, H.

THE SOVIET OIL OFFENSIVE AND INTER-BLOC
ECONOMIC COMPETITIONRM-2812-PR
(AD 269106)
Dec. 1961

Analyzes the available data on Soviet oil production and exports, and relates these data to the broader East-West economic struggle. Assesses the effects of Soviet oil exports on the West as both consumer and producer of oil. Measures are discussed for reducing the risk of a less reliable oil supply. 93 pp. Tables.

Lubell, H.

A NOTE ON THE NATIONAL ACCOUNTS OF ALGERIA,
1950-1959 and 1964P-2524
Jan. 1962

Tables showing the figures on most of the national accounts flows for Algeria for 1950 through 1959 and for 1964. The tables present the gross national product account, the personal income account, the government revenue and current outlay account, the combined capital account, and the balance of payments account. 12 pp.

Lubell, H.

MIDDLE EAST OIL CRISES AND WESTERN EUROPE'S
ENERGY SUPPLIES
The Johns Hopkins Press, Baltimore,
Maryland. 233 pp. Illus. \$8.75Book, 1963 &
RM-2766-PR
(AD 296927)
April 1962

Analyzes Western Europe's dependence on Middle East oil. Considers a range of possible oil crises and examines various measures by which Europe could insure itself against them. Detailed projections of oil consumption, production, and capacity to 1968 are included. Examines Western Hemisphere supplies as an alternative to Middle East oil in the event of serious stoppages. Concludes that such capacity could be expanded sufficiently to meet Europe's needs, but points out the need for maintaining surplus tanker capacity beyond 1968. Also examines the cost to Europe of providing a cushion of indigenous supplies to insure against the loss of Middle East oil and make itself less dependent on Western Hemisphere oil. This decision lies with the governments of Western Europe, but it could have world-wide economic and political consequences. (RM-2766-PR, 363 pp. Illus.)

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
MacClintock, S. with E. G. Mesthene	THE NATURE OF RESEARCH GOALS: SOME NECESSARY DEFINITIONS For abstract, see same title under Mesthene.	RM-2858-PR (AD 272828) Jan. 1962
Mah, Feng-hwa	THE FINANCING OF PUBLIC INVESTMENT IN COMMUNIST CHINA An inquiry into the state capital invest- ment in Communist China during the first Five-Year Plan (1953-1957). Discusses the extraction of funds to maintain a high in- vestment level through a forced industri- alization program. Much of the domestic financing has been accomplished by the transfer of financial resources out of the agricultural sector. 53 pp. Tables.	P-2031 June 30, 1960
Manne, A. S.	A MOTOR GASOLINE BLENDING PROBLEM Describes a joint attempt of the Union Oil Co. and RAND to study a gasoline blending problem. Applies mathematical economics to an actual industrial situation. 2 pp. Pre- sented before the Western Computer Conference at Los Angeles, Feb. 12, 1954.	P-479 Jan. 25, 1954
Manne, A. S.	SCHEDULING OF PETROLEUM REFINERY OPERATIONS Harvard University Press, Cambridge, Mass. 185 pp. Tables. \$5.00. Written for both the economist and petroleum engineer. Reports on several examples of the actual use of mathematical economics in representative oil refinery scheduling prob- lems. Includes a review of conventional re- finery cost accounting methods, a problem involving the allocation of crude oils to refineries at different locations, and a discussion of refinery methods and processes. (Eight chapters also published as Papers: P-383, April 23, 1953, and P-481, 484, 487, 489, 493, 502, and 503, May 1, 1954.)	1956
Markowitz, H. M. with G. H. Fisher	ON PREDICTING A COMBINATION OF OUTPUTS AND FINAL DEMANDS BY INPUT-OUTPUT For abstract, see same title under Fisher.	RM-954 (ATI 210479) Oct. 3, 1952

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Markowitz, H. M. and R. N. Snow	THE PROBLEM OF DEFINING AND MEASURING RAIL-ROAD CAPACITY An evaluation of railroad capacities in an attempt to determine what traffic can be handled in certain situations. In particular, the Trans-Siberian railroad is studied. 16 pp. Illus.	RM-951 (ATI 210765) Sept. 1952
Markowitz, H. M.	PROCESS ANALYSIS OF THE METAL-WORKING INDUSTRIES Analyzes major areas such as metal working, fuel, power, and chemicals to formalize a model of each sector and the interrelations of sectors. Determines a production function for the economy as a whole. 26 pp. Tables.	RM-1085 (AD 101886) May 12, 1953
Markowitz, H. M.	THE NATURE AND APPLICATIONS OF PROCESS ANALYSIS A study to determine what combinations of civilian and military outputs may be produced with specified national resources. Discusses a process analysis model and its uses. 23 pp. Tables. Presented before the International Seminar on Input-Output Relations at Pisa, Italy, July 5, 1954.	P-547 May 24, 1954
Markowitz, H. M.	THE GEOGRAPHIC DISTRIBUTION OF METAL-WORKING EQUIPMENT Data on the distribution of metal-working machinery by industry, type, and geographical location. Indicates that the quantity of various machines outside metropolitan areas is sufficient for substantial military output. 12 pp. Tables.	RM-1263 (AD 85482) June 10, 1954
Markowitz, H. M.	INDUSTRY-WIDE, MULTI-INDUSTRY, AND ECONOMY-WIDE PROCESS ANALYSIS Defines process analysis, presents an example of a subanalysis, describes the difficulties of, and the aids to, the building of an economy-wide model, and compares economy-wide models. 25 pp. Tables. <u>Published in The Structural Interdependence of the Economy, Proceedings of an International Conference on Input-Output Analysis, Tibor Barna (ed.), John Wiley & Sons, Inc., New York, 1956. \$7.50.</u>	P-600 Nov. 18, 1954

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Markowitz, H. M. with A. J. Rowe	AN ANALYSIS OF MACHINE TOOL SUBSTITUTION POSSIBILITIES For abstract, see same title under Rowe.	RM-1512 (AD 87449) June 30, 1955
Marschak, J. and M.R. Mickey, Jr.	NOTES ON THE OPTIMAL CHOICE OF WEAPONS Determines a weapon system that, subject to a given cost constraint, will maximize the mathematical expectations of the military utility. 36 pp. Illus. Published in the <u>Minutes of the Third Annual Logistics Conference, March 1952</u> . Presented before that conference at Washington, D.C., Jan. 3, 1952.	P-470 Nov. 30, 1951
Marschak, T. A. with M. Beckmann	AN ACTIVITY ANALYSIS APPROACH TO LOCATION THEORY For abstract, see same title under Beckmann.	P-649 April 5, 1955
Marschak, T. A.	A SPATIAL MODEL OF U.S. PETROLEUM REFINING An addition of spatial dimension to a linear-programming model of U.S. petroleum refining constructed by A. S. Manne. Refining technology in each of four U.S. regions is described by a 39-row matrix obtained from Manne's 105-row matrix by aggregation procedures. Other rows and columns of the spatial-model matrix deal with shipment of commodities between regions by pipeline, tanker, barge, and tank-car and with transport within each region. 125 pp. Illus.	RM-2205 (AD 156038) June 30, 1958
Marschak, T. A.	CENTRALIZATION AND DECENTRALIZATION IN ORGANIZATIONS An attempt to clarify the issues involved among schemes for sharing the task of decisionmaking in a firm. The study is concerned with schemes that are analogs of the decentralized "solution" of socialist economics, of the centralized solution, or of solutions that are neither centralized nor decentralized. A model of the organization and of the schemes used is discussed to help determine which class of system is preferable. 52 pp. Tables.	P-1587 Jan. 7, 1959

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Marschak, T. A.

THEORY AND POLICY IN THE FRENCH NATIONAL-
IZED INDUSTRIES

P-1871
Jan. 15, 1960

A survey showing the impact of French economic theorists on public policy in France. Considers the studies performed by members of, or at the request of, the French electric and gas companies, coal mines, and railways. The specific problem areas discussed deal with the choice of investment projects for fixed-capital budgets, the pricing of outputs, inventory decisions, and the relations between the nationalized industries. 43 pp. Illus.

Marschak, T. A.

STRATEGY AND ORGANIZATION IN A SYSTEM-
DEVELOPMENT PROJECT

P-1901
Feb. 3, 1960

Shows the use of case studies of system-development projects to determine development strategies. Illustrates types of project organization associated with both successful and unsuccessful system development. The case study presented, known as the TH system, is a microwave relay system for the transmission of telephone conversations and television signals. 57 pp. Illus. Presented before the Conference on Economic and Social Factors Determining the Rate and Direction of Inventive Activity, held at the University of Minnesota, May 12-14, 1960.

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Title & Abstract

Publication No.
and Date

- Marshall, A. W. A NOTE ON THE POWER FUNCTION OF THE WALD-WOLFOWITZ TOLERANCE LIMITS FOR A NORMAL DISTRIBUTION RM-271
(ATI 174368)
Oct. 21, 1949
- An investigation of the power function of the Wald-Wolfowitz method. Constructs tolerance limits for a normal distribution and determines a method which approximates an integral with limits of integration that are random variables. 6 pp.
- Marshall, A. W. THE SUPPLY OF FEMALE LABOR IN WORLD WAR II P-420
and
J. Hirshleifer Feb. 5, 1954
- Analyzes the influence of various determinates on the female labor force during World War II, and attempts to discover whether the supply curve of female labor was backward-sloping. Auto-correlated error terms are considered in a multiple-regression model. 29 pp. Illus.
- Marshall, A. W. A NOTE ON RANDOMIZED BRANCH SAMPLING P-725
Aug. 26, 1955
- A discussion of the operation of randomized branch sampling, the relation between this sampling plan and importance sampling developed in Monte Carlo calculations, and some improvements to Jessen's theory based upon the identity of these methods. 6 pp.
- Marshall, A. W. PREDICTABILITY OF THE COSTS, TIME, AND P-1821
and
W. H. Meckling Dec. 11, 1959
- SUCCESS OF DEVELOPMENT
- Results of some recent research into the extent and nature of the uncertainty in new developments, with emphasis on problems of development in the Air Force. 24 pp. Tables. Presented before the Conference on the Economic and Social Factors Determining the Rate and Direction of Inventive Activity, University of Minnesota, May 12-14, 1960.

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Author(s)

Title & Abstract

Publication No.
and Date

Marshall, S. M.

A REVIEW OF THE STEEL INDUSTRY OF THE
UNITED STATES

RM-1091
(ATI 210461)
April 21, 1953

Shows detailed construction requirements per ton of annual ingot capacity in integrated steel plants. For each component of a mill, cost estimates are determined in terms of materials, man-hours, and 1953 dollars. Assumes that existing steel-mill equipment is reproduced and that no new capacity is optimally added under current conditions. 80 pp. Tables.

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Massell, B. F.	SOME OBSERVATIONS ON CAPITAL LONGEVITY Contains remarks on the relationship between the longevity of a capital asset and the annual services provided by the asset, and an empirical observation on the nature of the change in capital longevity in the U.S. economy. 10 pp. Tables.	P-2103 Sept. 19, 1960
Massell, B. F.	ANOTHER SMALL PROBLEM IN THE ANALYSIS OF GROWTH Discusses the evidence that the observed increase in the average productivity of labor has been primarily a consequence of technical progress, as contrasted with capital deepening. Indicates another procedural difficulty involved in the apportionment of productivity increase between technical progress and capital deepening and presents a partial solution to the problem. 9 pp. Published in <u>The Review of Economics and Statistics</u> , Aug. 1962.	P-2194 Jan. 13, 1961
Massell, B. F.	IS INVESTMENT REALLY UNIMPORTANT? A theoretical and empirical re-examination of the hypothesis that the contribution of investment to increases in output per man-hour is minimal, as suggested by earlier studies. Using time series and cross-section data, evidence is provided of the interrelationship of investment and technical change. This suggests that the role of investment is larger than previously indicated. 37 pp. Published in <u>Metroeconomica</u> , April-Aug.-Dec. 1962.	P-2088-2 June 1, 1961
Massell, B. F.	A DISAGGREGATED VIEW OF TECHNICAL CHANGE An attempt to measure the relative importance of "intraindustry" and "interindustry" technical change. The latter, which results from factors of production shifting among industries, leads to a discrepancy between the aggregate rate of technical change and a weighted sum of industrial rates. Nearly one-third of aggregate technical change is accounted for by inter-industry change, mostly a result of capital mobility. 24 pp. Tables. Published in the <u>Journal of Political Economy</u> , Dec. 1961	P-2090-2 June 9, 1961

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Massell, B. F. and R. R. Nelson	RESEARCH AND ECONOMIC GROWTH--THE ROLE OF PUBLIC POLICY Examines the relationship of scientific re- search, technical progress, and economic growth, and the opportunities and problems of public policy consequent upon this re- lationship. 15 pp. Published in <u>California Management Review</u> , Winter 1962, and in <u>The Goal of Economic Growth</u> , E. S. Phelps (ed.), W. W. Norton and Company Inc., New York, 1962.	P-2089-3 Aug. 10, 1961
Massell, B. F.	INVESTMENT, INNOVATION, AND GROWTH Examines the evidence that the major part of the increase in average labor productiv- ity in the U.S. over the past 40 years has resulted from technical progress. Considers the relationship between investment and tech- nical progress in the context of a simplified model, and attempts to reassess the contribu- tion of investment to economic growth. 23 pp. Illus. Presented before the Econometric Society Meeting at St. Louis, Mo., Dec. 28-30, 1960. Published in <u>Econometrica</u> , April 1962.	P-2149-1 Oct. 1961
Massell, B. F. and S. G. Winter, Jr.	POSTATTACK DAMAGE ASSESSMENT: A CONCEPTUAL ANALYSIS Provides a framework for discussion and anal- ysis of systems designed to provide information concerning a thermonuclear attack and its impact upon the U.S. economy. Analyzes the objectives of a damage assessment system in terms of infor- mation provided by the system. Emphasizes the possibility that the enemy may intentionally target the system and that preattack research on the information problems is of utmost impor- tance to assure that the information system is both fast and flexible. 56 pp.	RM-2844-PR Nov. 1961
Massell, B. F.	DETERMINANTS OF PRODUCTIVITY CHANGE IN UNITED STATES MANUFACTURING Discusses the forces underlying a trend which shows a significant rise in output per man- hour in all major segments of the U.S. economy in the past 40 years. Capital deepening and technical advance are suggested as the two	P-2510 Jan. 1962

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Massell (cont'd.)	agents responsible for productivity change, and estimates of their relative significance are presented. Draws the distinction between autonomous and induced shifts in the production function, and gauges their relative importance in the manufacturing sector. 69 pp. Tables. Published in <u>Yale Economic Essays</u> , Fall 1962.	
Massell, B. F. with C. Wolf, Jr.	ECONOMIC DEVELOPMENT AND POSTWAR RECUPERATION: A COMPARISON OF INDUSTRIAL PRIORITIES Compares industrial priorities for economic development in underdeveloped areas and for recuperation from thermonuclear war in developed countries. A theoretical discussion precedes a presentation of the similarity of industrial priorities in the two contexts. Discusses some possible implications of these results for U.S. policy. 34 pp. Tables. Published in <u>The Journal of Industrial Economics</u> , April 1963.	RM-2952-PR (AD 270637) Jan. 1962 and P-2274-1 April 1962
Massell, B. F.	ECONOMETRIC VARIATIONS ON A THEME BY SCHNEIDER An analysis, using elementary econometric techniques, of data presented in a paper by Harold K. Schneider in <u>Economics in East African Aboriginal Societies</u> , at the SSRC Conference, Northwestern University, Nov. 1961. Supplements Schneider's observation on the relationship among the variables by a more formal treatment that involves fitting a production function to cross-section data, using multiple regression analysis. 11 pp. Published in <u>Economic Development and Cultural Change</u> , Oct. 1963.	P-2582 (AD 606416) May 1962

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Author(s)

Title & Abstract

Publication No.
and Date

Massell, B. F.

TRADE BETWEEN EAST AFRICA AND NEIGHBORING
COUNTRIES

P-2652
Sept. 1962

Attempts to determine the prospects of expanding trade between the territories of East Africa and other countries in the Eastern part of the continent by examining their existing patterns of trade. Countries considered are Kenya, Uganda, Tanganyika, Congo, Ethiopia, Federation of Rhodesia and Nyasaland, Mauritius, Ruanda-Urundi, Somalia, Sudan, and Zanzibar. 18 pp. Tables. Published in the Economic and Statistical Review, East African Statistical Department, Sept. 1962.

Massell, B. F.

INDUSTRIALIZATION AND ECONOMIC UNION IN
EAST AFRICA

P-2643
(AD 606410)
Nov. 1962

A study of the contribution that economic union can make to industrialization in Greater East Africa. Argues for industrialization in underdeveloped areas in general and in Greater East Africa in particular. 23 pp. Table. Presented before the Economics Club of Nairobi, Kenya, Nov. 1, 1962. Published in the East African Economics Review, Dec. 1962.

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<u>Author(s)</u>	<u>Abstract & Title</u>	<u>Publication No. and Date</u>
McGuire, C. B. with M. Beckmann	THE DETERMINATION OF TRAFFIC IN A ROAD NETWORK: AN ECONOMIC APPROACH For abstract, see same title under Beckmann.	P-437 Oct. 6, 1953
McGuire, C. B. with M. Beckmann <u>et al.</u>	THE ALLOCATION OF SWITCHING WORK IN A SYSTEM OF CLASSIFICATION YARDS For abstract, see same title under Beckmann.	P-448 Dec. 5, 1953
McGuire, C. B. with M. Beckmann & C. B. Winsten	STUDIES IN THE ECONOMICS OF TRANSPORTATION For abstract, see same title under Beckmann.	RM-1488 (AD 90419) May 12, 1955
McGuire, C. B.	STEAM LOCOMOTIVE AVAILABILITY AND TERMINAL FACILITIES A study to determine the daily availability of steam locomotives by examining the light maintenance and servicing work done in engine terminals, the locomotive time consumed in such work, and the equipment and labor re- quired. This discussion may be of use in economic vulnerability and logistical inter- diction studies. 30 pp. Illus.	RM-1592 (AD 87885) Nov. 28, 1955

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
McKean, R. N. with G. Cooper	ARE WE SURE ABOUT DISPERSAL? For abstract, see same title under Cooper.	P-301 May 19, 1952
McKean, R. N.	SUBOPTIMIZATION CRITERIA AND OPERATIONS RESEARCH An extended study of P-326 by C. J. Hitch. Discusses: criteria prerequisite to sub- optimizations that lead to improved opera- tions within a given institutional frame- work; institutional changes devised for increasing efficiency; and descriptive or consumers' research useful to high-level suboptimization. 20 pp. Presented at The Johns Hopkins University, Baltimore, Md., April 22, 1953.	P-386 April 22, 1953
McKean, R. N. with G. Cooper	IS DISPERSAL GOOD DEFENSE? For abstract, see same title under Cooper.	P-548 Sept. 15, 1954
McKean, R. N.	CRITERIA FOR THE SELECTION OF WATER- RESOURCE PROJECTS A discussion of certain problems of a cost- benefit analysis of water-resource projects. 15 pp. Illus. Published in the <u>Journal of the Operations Research Society of America</u> , Feb. 1956. Presented before that Society at Los Angeles, Calif., Aug. 16, 1955.	P-689 Sept. 16, 1955
McKean, R. N.	CRITERIA OF EFFICIENCY IN GOVERNMENT EXPENDITURES Discusses criteria problems involved in choosing efficient government programs. Explains the inevitability of breaking problems into administratively manageable subproblems and the consequent danger of applying inconsistent criteria. 12 pp. Illus. Published in the <u>Federal Expenditure Policy for Economic Growth and Stability</u> , Joint Economic Committee, 85th Congress, 1st Session. U.S. Government Printing Office, Washington, D.C., Nov. 5, 1957. \$3.25. Presented to the Subcommittee on Fiscal Policy, Joint Economic Committee, U.S. Congress.	P-1180 Sept. 18, 1957

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
McKean, R. N. with D. R. Fagg & C. Kaysen	WHAT THE FACTORY WORKER KNOWS ABOUT HIS FACTORY For abstract, see same title under Fagg.	P-1275 Feb. 2, 1958
McKean, R. N.	EFFICIENCY IN GOVERNMENT THROUGH SYSTEMS ANALYSIS John Wiley & Sons, N.Y., 336 pp. \$8.00. An inquiry into the analysis of water- resources investments and civil government operations. Discusses the limitations and use of quantitative analysis and illustrates how it can be used extensively in choosing budget size and composition. Advances the discussion of handling time streams of costs of gains and presents revised methods and exhibits for comparing water-resource projects.	1958
McKean, R. N.	EVALUATING ALTERNATIVE EXPENDITURE PROGRAMS A discussion of the defense budget and defense activities to evaluate alternative expendi- tures for governmental operations. Discusses the costs and gains of various programs, gives breakdowns of cost and indicators of performance in recent budgets and improve- ments of these performance indicators. 24 pp. Presented at the Universities-National Bureau of Economic Research Conference at Charlottesville, Va., April 10-11, 1959, and published in its proceedings: <u>Public Finance: Needs, Sources, and Utilization</u> , Princeton University Press, 1961.	P-1602 Jan. 27, 1959
McKean, R. N. with J. A. Kershaw	SYSTEMS ANALYSIS AND EDUCATION For abstract, see same title under Kershaw.	RM-2473 Oct. 30, 1959
McKean, R. N. with J. A. Kershaw	DECISIONMAKING IN THE SCHOOLS: AN OUTSIDER'S VIEW For abstract, see same title under Kershaw.	P-1886 Jan. 10, 1960
McKean, R. N. with C. J. Hitch	WHAT CAN MANAGERIAL ECONOMICS CONTRIBUTE TO ECONOMIC THEORY? For abstract, see same title under Hitch.	P-2155 Dec. 1, 1960

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Author(s)

Title & Abstract

Publication No.
and Date

McKean, R. N.
with
C. J. Hitch

THE ECONOMICS OF DEFENSE IN THE NUCLEAR AGE
Harvard University Press, Cambridge, Mass.
For abstract, see same title under Hitch.

Book 1960, & R-346
(AD 243098)
March 1960

McKean, R. A.
with
J. A. Kershaw

TEACHER SHORTAGES AND SALARY SCHEDULES
For abstract, see same title under
Kershaw.

Book, 1962 &
RM-3009-FF
Dec. 1961

McKean, R. N.
and
J. A. Kershaw

WHAT TO DO ABOUT TEACHER SHORTAGES

Summarizes the analysis and conclusions of
RM-3009-FF (above). Argues that school
districts should adopt a new kind of salary
schedule that allows them to raise salaries
for relatively scarce teaching skills with-
out being compelled to pay higher salaries
for all teaching skills. 15 pp. Tables.
Published in Saturday Review, Education
Supplement, Nov. 17, 1962.

P-2458-1
Sept. 1962

MEME

<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publications No. and Date</u>
Meckling, W. H. with B. H. Klein	APPLICATION OF OPERATIONS RESEARCH TO DECISIONS For abstract, see same title under Klein.	P-1054 Mar. 3, 1958
Meckling, W. H.	SINGLE OWNERSHIP OF A SUPERIOR RESOURCE: THE ROAD CASE AGAIN RE-EXAMINED A discussion of (1) the implications of various institutional arrangements for efficiency of road use and (2) whether centralized ownership of a commonly used resource, such as the superior road, will result in efficient use. 18 pp. Illus.	P-1516 Oct. 15, 1958
Meckling, W. H. with B. H. Klein & E. G. Mesthene	MILITARY RESEARCH AND DEVELOPMENT POLICIES For abstract, see same title under Klein.	R-333 (AD 226128) Dec. 4, 1958
Meckling, W. H. with A. W. Marshall	PREDICTABILITY OF THE COSTS, TIME, AND SUCCESS OF DEVELOPMENT For abstract, see same title under Marshall.	P-1821 Dec. 11, 1959
Meckling, W. H. and S. H. Reiger	COMMUNICATIONS SATELLITES: AN INTRODUCTORY SURVEY OF TECHNOLOGY AND ECONOMIC PROMISE A discussion of the ability of communications satellite systems to provide broad-band, long-distance communications at microwave frequencies without depending on intermediate ground-relay stations. Various alternative systems are identified: passive systems, low-orbit active systems, and 24-hour systems. A communications satellite system would greatly increase the number of long-distance channels available and the cost per channel is therefore tied critically to the question of future demand for additional channels. 57 pp. Illus.	RM-2709-NASA Sept. 15, 1960
Meckling, W. H. with B. H. Klein & E. G. Mesthene	THE NATURE AND FUNCTION OF MILITARY R&D For abstract, see same title under Klein.	P-2147 Nov. 4, 1960

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Meckling, W. H.	THE ECONOMIC POTENTIAL OF COMMUNICATION SATELLITES	P-2216 Mar. 1, 1961
	A discussion of communication satellites as a means of substantially reducing cost as compared to the new submarine cables, provided high rates of use can be achieved. Lower toll rates would lead to a substantial expansion of use and new kinds of demand are an important factor but their potential is difficult to evaluate. 26 pp. Illus. Published in <u>Science</u> , June 1961.	
Meckling, W. H. and S. H. Reiger	ECONOMIC ASPECTS OF COMMUNICATION SATELLITE SYSTEMS	P-2396 June 3, 1961
	Analyzes the problem of cost and utilization in communication satellite systems. Discusses the cost of R&D, initial installation, and operation. Responsiveness of the market to increases in transoceanic communication traffic is considered in terms of demand increase over a period of time and in terms of the sensitivity of utilization rates to price reductions. 18 pp. Illus. Presented before the International Symposium on Space Communications, Paris, Sept. 18-22, 1961.	
Meckling, W. H.	COMMUNICATIONS SATELLITES: SUPPLEMENTAL INFORMATION ON THE COST ESTIMATES GIVEN IN RM-2709-NASA	RM-2778-NASA June 30, 1961
	Prepared at the request of NASA, this RM provides the detailed analytical background for the cost estimates given in RM-2709-NASA (see preceding page). Equations for the computation of costs per voice channel are given and their application explained for communications satellites, submarine cables, and microwave relay systems. 17 pp.	
Meckling, W. H. with B. H. Klein, <u>et al.</u>	COMMUNICATIONS SATELLITES AND PUBLIC POLICY: AN INTRODUCTORY REPORT For abstract, see same title under Klein.	RM-2925-NASA (AD 275936) Dec. 1961

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Meckling, W. H.	THE ECONOMIC IMPORTANCE OF SPACE TECHNOLOGY Discusses the economic implications of space technology. Points out the need for a more scientific approach to the question of social consequences of space programs. 8 pp. Presented at the Second National Conference on the Peaceful Uses of Space, Seattle, Wash., May 9, 1962.	P-2585 June 1962
Mesthene, E. G. with B. H. Klein & W. H. Meckling	MILITARY RESEARCH AND DEVELOPMENT POLICIES For abstract, see same title under Klein.	R-333 (AD 226128) Dec. 4, 1958
Mesthene, E. G. with B. H. Klein & W. H. Meckling	THE NATURE AND FUNCTION OF MILITARY R&D For abstract, see same title under Klein.	P-2147 Nov. 4, 1960
Mesthene, E. G. and B. C. Denney	SCIENCE AND STATECRAFT Investigates ways in which the scientific component of policy can be most effectively exploited for the national security and welfare. Some problems in formulating national security policy result in a reciprocal usurpation of the scientific and policy-making functions. Improvements in existing policy instruments will require mutual realization by the scientist and policy-maker that each needs to learn the other's job for the purpose of doing his own job better. 16 pp.	P-2462-1 Oct. 1961
Mesthene, E. G. and S. MacClintock	THE NATURE OF RESEARCH GOALS: SOME NECESSARY DEFINITIONS Industrial and governmental agencies whose research missions are other than simply scientific have the problem of defining "useful research goals" that will allow freedom of inquiry and still offer a reasonable probability that the completed research will be useful to the sponsoring organization. The problem is to determine the exact nature of the relevance of research to mission. 29 pp.	RM-2858-PR (AD 272828) Jan. 1962

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Mesthene, E. G.	THE TITANIUM DECADE A discussion of the titanium development program which illustrates inefficiencies inherent in government-industry contractual arrangements aimed at rapid technological advances. More than half the total cost of the program to the Government was the result of subsidizing the creation of a titanium metal industry. It is argued (1) that such future Government programs can be more efficient if they are aimed more directly at the technological objective, and (2) if the contracts with industry contain more direct rewards for R&D work rather than indirect rewards in the form of production orders. 21 pp.	RM-2915-PR (AD 270125) Jan. 1962
Mickey, M. R., Jr. with J. Marschak	NOTES ON THE OPTIMAL CHOICE OF WEAPONS For abstract, see same title under Marschak.	P-470 Nov. 30, 1951
Milliman, J. W. with J. Hirshleifer & J. DeHaven	WATER SUPPLY: ECONOMICS, TECHNOLOGY AND POLICY For abstract, see same title under Hirshleifer.	Book, 1960
Milliman, J. W.	DECISION MAKING FOR PUBLIC INVESTMENT: DISCUSSION Research bearing on two papers presented at the same meeting which deal with decision making for public investment: "Welfare Aspects of Benefit-Cost Analysis," by John M. Krutilla, and "Water and Welfare," by Robert Dorfman. In the light of these papers, the author comments on the RAND-sponsored study on water supply. 12 pp. Presented before the joint meeting of the Econometric Society and the Regional Science Assn., St. Louis, Mo., Dec. 30, 1960, and published in the proceedings of that meeting.	P-2252 Jan. 15, 1961

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Author(s)Title & AbstractPublication No.
and Date

Moore, F. T.
and
W. Isard

REGIONAL SCIENCE TECHNIQUES APPLICABLE TO
REGIONAL PLANNING

P-1099
June 4, 1957

Part of a broader investigation concerned with the diverse regional science techniques applicable to regional planning. Some of the more promising techniques are discussed, and the input-output technique is emphasized. 12 pp. Published in the Proceedings of the Second International Conference on Regional Planning and Development, Held at The Hague, July 1957. Presented before the International Seminar on Economic Development and Regional Planning, The Hague, Netherlands, July 1-6, 1957.

Moore, F. T.

THE FAILURES OF THE WORLD BANK MISSIONS

P-1411
June 24, 1958

A critique of the mission reports of the International Bank for Reconstruction and Development, on the problems and characteristics of the underdeveloped economies of some 15 countries. The author found this material unsatisfactory as economic analysis and unsuitable in areas such as statistics, development-program outlines, project delineation, etc. 50 pp. Tables.

Moore, F. T.

CRIMINAL JURISDICTION IN OVERSEAS AREAS

P-1313
Mar. 18, 1959

A discussion of the problems in exercising criminal jurisdiction over American military and civilian personnel in overseas areas. The subject of criminal jurisdiction is covered in that part of the treaties called the "status of forces" agreements, and the paper treats the various factors which make those agreements difficult to apply. The significance of this subject for U.S. foreign policy is emphasized, since it deals with U.S. respect for the sovereignty of other nations. 38 pp. Published in The Journal of Politics, May 1959.

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Moore, F. T.	ECONOMIC DEVELOPMENT AND THE EMPLOYMENT OF RESOURCES Considers the problems of economic growth that face underdeveloped countries. Discusses (1) the theory of balanced and unbalanced growth, (2) the neo-classical competitive model of the economy to discover whether it provides a useful framework for analyzing the conditions and whether derived norms can be found for policies that will help to accelerate the growth of these countries, and (3) some empirical evidence on questions concerning the existence of external economies, the effect of technological change, and the relative costs of development of various sectors in the economy. 42 pp. Presented at the Conference on Natural Resources and Economic Growth, Ann Arbor, Mich., April 7-9, 1960.	P-1904 Feb. 5, 1960
Moore, F. T.	ECONOMIC GROWTH AND FOREIGN AID: A PROPOSAL CONCERNING THE EXPORT OF INDUSTRIAL PLANTS Describes a program that can contribute directly to the growth of the U.S. economy and can also supply needed productive capacity to underdeveloped countries in Asia, Africa, and Latin America. 20 pp.	P-2287 April 20, 1961
Moore, F. T.	STUDIES IN ECONOMIC PLANNING: A TRIP REPORT An account of an economic conference in Geneva, Switzerland, and talks with various people in Paris and London about European attitudes towards foreign aid, economic integration, and domestic economic planning. 19 pp.	P-2469 Oct. 1961
Moore, F. T.	ON REGIONAL DEVELOPMENT AND DYNAMIC MODELS Discusses (1) the problem of criteria for regional development; (2) a growth model based on the maximization of the output-investment ratio, and (3) a reformulation of a regional growth model and some results of its application to the economy of the State of California. 28 pp. Illus. Presented at the International Conference of Economic Development, Geneva, Switzerland, Sept. 1961.	P-2342-1 Nov. 1961

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Moore, F. T. with B. H. Klein <u>et al.</u>	COMMUNICATIONS SATELLITES AND PUBLIC POLICY: AN INTRODUCTORY REPORT For abstract, see same title under Klein.	RM-2925-NASA (AD 275936) Dec. 1961
Moore, F. T.	URBAN ECONOMIC ACCOUNTS AND RESEARCH Comments on two papers delivered before the American Economic Assn. at New York, Dec. 27, 1961. Both papers (one by Dr. Harvey Perloff and the other by Prof. Werner Hirsch) attempt to increase the extent and type of information collected on urban and regional affairs. 4 pp.	P-2533 Feb. 1962
Moore, F. T.	MILITARY PROCUREMENT AND CONTRACTING: AN ECONOMIC ANALYSIS A survey of problems of economic efficiency in military procurement and contracting. Gives background material on contracts. Notes the increasing share of procurement represented by cost-plus-a-fixed-fee contracts, and pro- poses a reclassification of contract types. Suggests the establishment of efficiency classes in incentive contracts so that a "hard" cost target can be set. Cost underruns could then more nearly represent truly efficient behavior rather than poor cost estimating. 148 pp. Illus.	RM-2948-PR (AD 293424) June 1962

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Moorsteen, R. H.	PRICES OF ROAD BUILDING AND CONSTRUCTION MACHINES, USSR, 1928-1949 Part of a larger study concerned with wholesale price movements of all civilian machinery in the USSR. 24 pp. Illus.	RM-1037 (ATI 210781) Feb. 11, 1953
Moorsteen, R. H.	PRICES OF TRACTORS, TRUCKS, AND AUTOMOBILES, USSR, 1928-1949 Discusses price changes for automotive-type products. Part of a broader investigation to determine the war potential and vulnerabilities of the Soviet economy 143 pp. Tables.	RM-1121 (ATI 210483) July 23, 1953
Moorsteen, R. H.	PRICES OF PRIME MOVERS, USSR, 1927/28-1949 Contains data on wholesale price movements of prime movers in the USSR in the stated time period. Part of the study to determine the war potential of the Soviet economy. 169 pp. Tables.	RM-1225 (AD 90496) Mar. 30, 1954
Moorsteen, R. H.	PRICES OF RAILROAD ROLLING STOCK, USSR--1927/28-1949 Data on the trend of wholesale prices of railroad rolling stock in the USSR from 1927/28 to 1949. 66 pp. Tables. Subsequently included in R-370 and forthcoming book (see entry below under 1961).	RM-1258 (AD 90499) May 27, 1954
Moorsteen, R. H.	COMMENTS ON TECHNOLOGICAL POLICY AND ECONOMIC CALCULATION IN SOVIET INDUSTRY BY DAVID GRANICK A discussion of Prof. Granick's attempt to determine whether the observed technological decisions in the Soviet Union are similar to those derived from economic calculation. 9 pp. Presented before the Symposium on Economic Calculation and Organization in Eastern Europe, held at the University of Calif., Berkeley, June 17, 1958.	P-1397 Oct. 24, 1958
Moorsteen, R. H.	ECONOMIC PROSPECTS FOR COMMUNIST CHINA A review of the first Five-Year Plan of USSR and that of the Chinese People's Republic. Compares CPR's (cont'd.)	P-1298 Nov. 10, 1958

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Moorsteen, R. H. (cont'd.)	accomplishments so far in heavy industry with the achievements of a comparable period in Soviet history. 58 pp. Published in <u>World Politics</u> , Jan. 1959. Presented to the Association for Asian Studies at New York City, April 1, 1958.	
Moorsteen, R. H.	AN ECONOMIC DEVELOPMENT OF STRATEGIC SIGNIFICANCE IN COMMUNIST CHINA A discussion of the military implications of the Chinese Communist program, initiated toward the end of 1957, of building very small industrial enterprises to be located in towns, rural villages, or on collective farms. This will result in an unusual decentralization of future economic development and the economy being resilient under enemy attack. 5 pp.	P-1578 Dec. 15, 1958
Moorsteen, R. H. with N. M. Kaplan	AN INDEX OF SOVIET INDUSTRIAL OUTPUT For abstract, see same title under Kaplan.	P-1848 Mar. 2, 1960
Moorsteen, R. H. with N. M. Kaplan	INDEXES OF SOVIET INDUSTRIAL OUTPUT, VOLS. I and II For abstract, see same title under Kaplan.	RM-2495 (AD 241134) May 13, 1960
Moorsteen, R. H.	ON MEASURING PRODUCTIVE POTENTIAL AND RELATIVE EFFICIENCY A study showing that for every comparison between two economies there are conceptually four indexes of relative efficiency, which will undoubtedly vary among themselves. Each of the four indexes measures something different, and each fails to show the relative efficiency for the case in which each economy produces in its own proportions from inputs combined in its own proportions. 36 pp. Illus.	P-2119 Oct. 15, 1960

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Author(s)

Title & Abstract

Publication No.
and Date

Moorsteen, R. H.

PRICES AND PRODUCTION OF MACHINERY IN THE
SOVIET UNION, 1928-1958
Harvard University Press, Cambridge, Mass.
498 pp. Tables. \$15.00.

Book, 1962, &
R-370-PR
(ATI 278132)
June 1962

Provides the key quantitative indicators for 30 years of Soviet experience in developing machinery production: indexes of changes in price levels, of changes in output, and of the supply of machinery for purposes of capital construction. The author's raw materials are individual price quotations, gleaned from handbooks and documents used for domestic transactions in the Soviet economy, together with the statistics of physical output for some 200 items of machinery. These data are aggregated by standard methodology into price and production indexes. "Real" investment in machinery is computed by the deflation of investment in current prices. Also published as R-370-PR (ATI 278132).

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Nelson, R. R.	THE SIMPLE ECONOMICS OF SCIENTIFIC RESEARCH: A THEORETICAL ANALYSIS Determines how much expenditure on basic research is socially desirable and the extent to which a private firm can capture through the market the increased value of output resulting from the scientific research that it sponsors. 20 pp. Published in <u>The Journal of Political Economy</u> , April 1959.	P-1288 April 28, 1958
Nelson, R. R.	GROWTH MODELS AND THE ESCAPE FROM THE LOW-LEVEL EQUILIBRIUM TRAP: THE CASE OF JAPAN Restates the equilibrium growth model and the special case of the low-level equilibrium trap. Japanese economic growth from 1868 is shown as an escape from the low level equilibrium trap and as a takeoff into sustained growth. Although Schumpeterian innovation is probably the primary factor explaining increased output from given factor endowments in advanced economies, improved and fuller allocation may be more important in backward economies. 23 pp. Illus. Published in <u>Economic Development and Cultural Change</u> , 1959.	P-1537 Jan. 6, 1959
Nelson, R. R.	THE ECONOMICS OF INVENTION: A SURVEY OF THE LITERATURE A selective summary of the literature on the economics of invention. Both growing social demand and new scientific knowledge are examined as factors stimulating inventive effort. The comparative importance of the private inventory and the research and development laboratory are appraised. Stresses the great uncertainties which still surround inventive effort and investigates how this uncertainty affects management practices in industrial-research laboratories. 59 pp. Published in the <u>Journal of Business</u> , April 1959.	RM-2146-1 (AD 209021) Jan. 15, 1959 & P-1604 Jan. 1959

NENE

<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Nelson, R. R.	UNCERTAINTY, PREDICTION, AND COMPETITIVE EQUILIBRIUM Analyzes market prediction in terms of value theory. Given a cost curve and a frequency distribution of demand, greater ability to predict will result in greater average profit and average industry output, and smaller average price and variation of price. Differing ability to predict affects even the slope of the supply curve. 28 pp. Illus. Published in the <u>Quarterly Journal of Economics</u> , Feb. 1961.	P-1687 May 5, 1959
Nelson, R. R.	THE ECONOMICS OF PARALLEL R&D EFFORTS Examines the logic of the parallel-path approach to the solution of development problems. Discusses under what conditions parallel work on several alternatives will prove to be good strategy. 29 pp. Tables.	P-1774 Aug. 24, 1959
Nelson, R. R.	THE ECONOMICS OF PARALLEL R&D EFFORTS: A SEQUENTIAL-DECISION ANALYSIS A mathematical model designed to implement a major conclusion of RAND's continuing study of Air Force R&D policies. Through the use of sequential-decision theory, the model attempts to explore parallel development in a more quantitative way. 43 pp. Illus. (See also R-333 under Klein.) Published in <u>Review of Economics and Statistics</u> , Nov. 1961.	RM-2482 (AD 234041) Nov. 12, 1959
Nelson, R. R.	THE LINK BETWEEN SCIENCE AND INVENTION: THE CASE OF THE TRANSISTOR A case study of basic research in industry. Focuses on the factors affecting the allocation of research resources in a science-oriented industrial research lab. A history of the research that led to the transistor is presented. Generalizes on the characteristics of research and what they imply relative to problems of research management. 54 pp. Illus. Presented before the Conference on the Economic and Social Factors Determining the Rate and Direction of Inventive Activity, University of Minnesota, May 12-14, 1960.	P-1854 Dec. 15, 1959

NENEAuthor(s)Title & AbstractPublication No.
and Date

Nelson, R. R.

A NOTE OF STABILITY, AND THE BEHAVIOR
ASSUMPTIONS OF HARROD-TYPE MODELSP-1971
April 20, 1960

Examines some implications of introducing into the desired investment equation of a Harrod-Domar model, a term relating to the existing state of capital shortage or surplus. Shows that Rose's amended model is marked by great instability, but after some perturbations the economy can return to equilibrium and is even capable of rather lengthy periods of full employment growth at the top of a boom. 23 pp. Illus. Published in The Economic Journal, June 1961.

Nelson, R. R.
and
S. Winter, Jr.WEATHER INFORMATION AND ECONOMIC DECISIONS
--A PRELIMINARY REPORTRM-2620-NASA
Aug. 1, 1960

Studies economic benefits from improvements in weather forecasting. Shows how the value of the forecasting service depends on the characteristics of the decision problem and on the quality of the forecasts. Includes case studies of different kinds of firms and how improved weather forecasting could affect operating costs. Examines the problem of how the forecasts themselves should be made if maximum economic benefit is to be derived from knowledge of weather phenomena. 126 pp. Illus.

Nelson, R. R.

INTRODUCTION TO THE UNBER-SSRC CONFERENCE
ON INVENTIVE ACTIVITYP-2073
Aug. 15, 1960

An introduction to a volume of papers presented at a conference on inventive activity, held at the University of Minnesota, May 12-14, 1960. Discusses the reasons for the developing interest in inventive activity. Outlines the principal topics including: classical economics approach and the black box; concept of parallel inventive efforts; profits from inventions; nonmarket factors; and invention and policy. 20 pp.

Nelson, R. R.
with
B. F. MassellRESEARCH AND ECONOMIC GROWTH--THE ROLE OF
PUBLIC POLICYP-2089-3
Aug. 10, 1961

For abstract, see same title under Massell.

NE-NI

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Neuberger, E.	THE ECONOMICS OF COMPENSATING BALANCES An analysis of various aspects of compensating balances in the monetary system. Considers the general types of compensating balances, specific examples of these balances, some quantitative evaluation of their size, the advantages and disadvantages of these balances, and the effect their existence has on the effectiveness of monetary policy. 33 pp. Illus.	P-2203 Jan. 25, 1961
Newell, A.	THE CAPACITY OF A RAILROAD FREIGHT YARD (A SURVEY OF THE PROBLEM -- NOT A SOLUTION) A study of the ability of a railroad freight yard to receive, hold, and deliver freight cars upon order. 17 pp. Illus.	RM-555 (AD 116562) June 14, 1950
Nichols, R. T.	THE GERMAN MUNITIONS PRODUCTION INDEX: WORLD WAR II A publication of the annual and monthly index numbers for German munitions production as a whole, and for several groups and subgroups in World War II. 26 pp. Tables.	RM-346 (ATI 210630) Feb. 2, 1950
Nichols, R. T.	THE EUROPEAN COAL AND STEEL COMMUNITY Presents the purposes of the ECSC Treaty, its aims, institutions, and scope. Discusses the tariffs and quotas on trade within the Community, and the management, price publication, and competition controls of the High Authority. 38 pp. Tables.	P-2388 Aug. 15, 1961
Nichols, R. T.	THE EUROPEAN COAL AND STEEL COMMUNITY Studies the European Coal and Steel Community (ECSC) up to 1961 as a forerunner of the European Economic Community. Although devoted to the ECSC alone, the Memorandum concentrates on those aspects of ECSC experience that are relevant to an analysis of the institutions and limitations of the European Economic Community, and therefore to an understanding of the prospects for European political and military unity. 47 pp. Tables.	RM-3107-PR (AD 277521) June 1962

NINIAuthor(s)Title & AbstractPublication No.
and Date

Nieder corn, J. H. A MACRO INVESTMENT MODEL FOR MANUFACTURING

P-2468-1
Feb. 1962

The derivation, statistical testing, and evaluation of a new investment model for investment in manufacturing industries. Two macro investment functions are deduced from the model which show that aggregate investment depends on the rate of growth of total output, the gap between desired and actual capital stock, and a change in profit variable to show the state of short-run expectations. 23 pp. Tables.

Nieder corn, J. H. CHANGES IN THE LOCATION OF FOOD AND GENERAL
with MERCHANDISE STORE EMPLOYMENT WITHIN METRO-
J. F. Kain POLITAN AREAS, 1948-1958P-2614-1
Aug. 15, 1962

Derives a model to explain changes in retail employment in central cities and metropolitan rings. Statistical testing indicates that changes in population and labor productivity were the most important determinants of changes in food and general merchandise store employment in 39 metropolitan areas over the period 1948-1958. 23 pp. Published in the Journal of the Western Economic Association, Spring 1963.

Nieder corn, J. H. AN ECONOMETRIC MODEL OF METROPOLITAN
and DEVELOPMENT
J. F. KainP-2663
(AD 292170)
Dec. 1962

Part of a broader study concerned with the pattern of land use-transportation interrelationships within urban areas. This paper presents a model of the population and employment changes from 1954 to 1958 in the 39 largest Standard Metropolitan Statistical Areas. 38 pp. Illus. Presented before a joint session of the Econometric Society and the Regional Science Association, Pittsburgh, Pa., Dec. 28, 1962.

NINI

<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Nimitz, A. E. (Nancy) with A. Gerschenkron	A DOLLAR INDEX OF SOVIET PETROLEUM OUTPUT, 1927-28 to 1937 For abstract, see same title under Gerschenkron.	RM-804 (ATI 210413) April 4, 1952
Nimitz, A. E.	A DOLLAR INDEX OF SOVIET COAL OUTPUT, 1927/28-1937 The third in a series of studies of heavy industry output in the USSR. The present study attempts to measure the increase in Soviet coal output expressed in terms of U.S. dollars of 1939 purchasing power. 97 pp. Tables.	RM-1042 (ATI 210782) Feb. 18, 1953
Nimitz, A. E. with A. Gerschenkron	A DOLLAR INDEX OF SOVIET IRON AND STEEL OUTPUT, 1927/28-1937 For abstract, see same title under Gerschenkron.	RM-1055 (ATI 210784) March 13, 1953
Nimitz, A. E.	THE NEW SOVIET AGRICULTURAL DECREES (SEPTEMBER PLENUM, 1953) A discussion of various documents, published in <u>Pravda</u> from August 9 to October 1, 1953, in which the Soviet government analyzed the present defects of Soviet agriculture, con- demned some past errors in agricultural policy, and announced a program to increase agricultural output. 92 pp. Tables.	RM-1178 (ATI 210489) Jan. 13, 1954
Nimitz, A. E.	STATISTICS OF SOVIET AGRICULTURE Presents data on the output and productive capital of Soviet agriculture from 1928 to 1953, excluding the war years. 96 pp. Tables.	RM-1250 (AD 90498) May 7, 1954
Nimitz, A. E.	PRICES OF REFINED PETROLEUM PRODUCTS IN THE USSR, 1928-1950 A summary of changes in Soviet wholesale prices of refined petroleum products from 1928 to 1950. Part of a broad investigation expected to provide a basis for calculating deflators for components of national income data in current rubles. 120 pp. Tables.	RM-1497 (AD 90550) May 26, 1955

NINI

<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Nimitz, A. E. (Nancy)	SOVIET AGRICULTURE SINCE THE SEPTEMBER 1953 REFORMS A review of Soviet agricultural develop- ments to 1955, emphasizing (1) efforts to raise grain production through expansion of sown area and increase in corn sowings, (2) institutional changes, and (3) procure- ment practices and prices. 191 pp. Tables.	RM-1552 (AD 90552) Sept. 15, 1955
Nimitz, A. E.	SOVIET STATISTICS OF MEAT AND MILK OUTPUT: A NOTE ON THEIR COMPARABILITY OVER TIME A review of evidence indicating that data recently published by the USSR on statistics of meat and milk output have a broader cover- age than data published in the prewar period. 37 pp. Tables.	RM-2326 (AD 211642) Feb. 6, 1959
Nimitz, A. E. with O. Hoeffding	SOVIET NATIONAL INCOME AND PRODUCT, 1949-1955 For abstract, see same title under Hoeffding.	RM-2101 (AD 213477) April 6, 1959
Nimitz, A. E.	SOVIET NATIONAL INCOME AND PRODUCT, 1956-1958 1956-1958 Presents estimates of the national income and product of the USSR at current actual prices for the years 1956-1958, and at current ad- justed prices (ruble factor cost) for 1949- 1958. Shows that from 1956-1958, the share of gross investment rose from 26 to 28 per cent (30 to 32 per cent at adjusted prices), while the share going to consumption remained con- stant at about 56 per cent (50 per cent at ad- justed prices). Per capita consumption, de- flated to constant prices, increased at an average rate of 6 per cent a year, compared with 9 per cent for 1953-1955. The share of defense outlays declined from 7.3 to 5.9 per cent of total GNP (8.5 to 6.8 per cent at ad- justed prices). Since prices of military goods may have fallen significantly (unlike compara- tively stable prices of civilian goods and services), real defense outlays probably in- creased more than money outlays. 189 pp. Tables.	RM-3112-PR (AD 276933) June 1962

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Porch, H.	MISSILE SAFETY -- THE UNSUNG EFFORT BEHIND THE SPACE PROGRAM Discusses the USAF program and organization to assure safety in design, handling, and operation of the missiles in the space pro- gram. 6 pp. Published in <u>Skylights</u> , Jan. 1963, and in <u>National Defense Transporta- tion Journal</u> , March-April 1963.	P-2630 Oct. 1962
Powell, R. P.	A MATERIALS-INPUT INDEX OF SOVIET CONSTRUCTION 1927/28 TO 1955 -- PART I An attempt to estimate changes in the physical volume of construction in the USSR from 1928 to 1955. An index of the volume of materials employed in construction, weighted by 1937 prices, is compiled as an estimate of the index of the physical volume of construction. Alternative methods of measuring the volume of construction are discussed and the results of such methods are compared. 38 pp. Illus. See revision, RM-2454.	RM-1872 (AD 133014) Feb. 14, 1957
Powell, R. P.	A MATERIALS-INPUT INDEX OF SOVIET CONSTRUCTION, 1927/28 TO 1955 -- PART II: APPENDICES A continuation of RM-1872. Gives the detailed data, sources, and methods under- lying the index of the physical volume of construction described in Part I. 559 pp. Tables. See revision, RM-2454.	RM-1873 (AD 133015) Feb. 14, 1957
Powell, R. P.	A MATERIALS-INPUT INDEX OF SOVIET CONSTRUCTION, REVISED AND EXTENDED A revision of RM-1872 and RM-1873 which extends the index to 1958. New data recently published in the USSR are incor- porated, leading to more reliable estimates of changes over time of the volume of con- struction. These estimates serve as component indicators of Soviet national income and product and provide data for analyses of Soviet economic war potential. 98 pp. Tables.	RM-2454 (AD 232651) Sept. 28, 1959

RERE

<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Redding, A. D.	DISTRIBUTION OF USSR NONAGRICULTURAL EMPLOYMENT, 1928-1950: A PRELIMINARY STUDY Estimates of USSR nonagricultural employment by broad sectors of the economy, 1928-1941, and by individual industries, 1928-1937. Summary data for later years are also shown. Estimates are compared with similar data for the U.S. 18 pp. Illus.	RM-703 (ATI 210393) Oct. 18, 1951
Redding, A. D.	RELIABILITY OF ESTIMATES OF UNFREE LABOR IN THE USSR An analysis of the Jasny article on the size of the Russian unfree labor force, "Labor and Output in Soviet Concentration Camps." Examines the crucial role which conjecture plays in his discussion and the errors in his interpretation of data in the 1951 Plan. 7 pp. Published in <u>The Journal of Political Economy</u> , Aug. 1952.	P-260 Jan. 2, 1952
Redding, A. D. with N. Kaplan, <u>et. al.</u>	A TENTATIVE INPUT-OUTPUT TABLE FOR THE USSR, 1941 PLAN For abstract, see same title under Kaplan.	RM-924 (ATI 210756) Sept. 2, 1952
Redding, A. D.	EMPLOYMENT AND LABOR PRODUCTIVITY IN USSR RAILROADS, 1928-1950 A descriptive survey of employment, traffic volume, and labor productivity in USSR rail- roads from 1928-1950. Certain railroad time series, culled from a variety of official and semi-official Soviet sources, are determined. 31 pp. Illus. Published in <u>Soviet Studies</u> , July 1953.	P-327 Sept. 15, 1952
Reiger, S. H. with W. H. Meckling	COMMUNICATIONS SATELLITES: AN INTRODUCTORY SURVEY OF TECHNOLOGY AND ECONOMIC PROMISE For abstract, see same title under Meckling.	RM-2709-NASA Sept. 15, 1960
Reiger, S. H. with W. H. Meckling	ECONOMIC ASPECTS OF COMMUNICATION SATELLITE SYSTEMS For abstract, see same title under Meckling.	P-2396 June 3, 1961
Reiger, S. H. with B. H. Klein, <u>et al.</u>	COMMUNICATIONS SATELLITES AND PUBLIC POLICY: AN INTRODUCTORY REPORT For abstract, see same title under Klein.	RM-2925-NASA (AD 275936) Dec. 1961

RE-RO

RE-RO

<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Remer, C. F.	THE TRADE AGREEMENTS OF COMMUNIST CHINA A study into the nature and significance of the trade agreements of Communist China. Emphasizes economic aspects but includes political and other implications. 130 pp. Tables.	P-2208 Feb. 1, 1961
Rodin, N. W.	PRODUCTIVITY IN SOVIET IRON MINING, 1890-1960 Analyzes the labor productivity trends in Soviet mining from 1890 to 1940. Estimates the approximate productivity level expected in 1960. 50 pp. Tables.	RM-1116 (ATI 210792) July 7, 1953
Rowe, A. J. and H. M. Markowitz	AN ANALYSIS OF MACHINE TOOL SUBSTITUTION POSSIBILITIES Data required for a process analysis of the metal working industry on an economy-wide scale. The conceptual framework of a machine tool substitution analysis is examined together with the empirical problems encountered. The parameters of the model considered and related matters are estimated. 96 pp. Illus.	RM-1512 (AD 87449) June 30, 1955
Rowe, A. J.	A COMPENDIUM OF PRESSWORKING OPERATIONS A supplement to RM-1512. The present investigation classifies pressworking equipment and its tasks and discusses the selection, operation, and characteristics of this equipment. 26 pp. Illus.	RM-1549 (AD 87811) Sept. 12, 1955
Rowen, H. S.	IS DEFENSE SPENDING WASTEFUL? Stresses that the weapons we buy, especially in the thermonuclear age, contribute to our welfare. This view is independent of the level of our defense spending. It applies to any level of budget, and to decreases as well as increases. 7 pp. Published in <u>Challenge Magazine</u> , June 1959.	P-1660 June 1, 1959
Rowen, H. S. and A. C. Enthoven	DEFENSE PLANNING AND ORGANIZATION For abstract, see same title under Enthoven.	P-1640 July 28, 1959

SA-SC

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Author(s)

Title & Abstract

Publication No.
and Date

Samuelson, P. A.

NOTE ON OPTIMAL DECISIONS IN DIFFERENTIAL
EQUATION PROCESSES

RM-114
March 1, 1949

Demonstrates the falsity of the supposition that anything that maximizes the instantaneous growth of net strength will also maximize it over time in relation to optimal procedures in some Lancaster-type war models. 3 pp.

Samuelson, P. A.
with
R. Dorfman &
R. M. Solow

LINEAR PROGRAMMING AND ECONOMIC ANALYSIS
For abstract, see same title under Dorfman.

1958

Schelling, T. C.

RE-INTERPRETATION OF THE SOLUTION CONCEPT
FOR "NON-COOPERATIVE" GAMES

P-1385
June 2, 1958

Discusses coordination-game theory, suggesting that the "solution in the strict sense" of a tacit non-zero-sum game is to be understood largely by reference to its signalling qualities. 17 pp. Illus. Incorporated in The Strategy of Conflict, Harvard University Press, Cambridge, Mass., 1960.

Schelling, T. C.

FOR THE ABANDONMENT OF SYMMETRY IN THE
THEORY OF COOPERATIVE GAMES

P-1386
May 29, 1958

Argues that the pure "moveless" bargaining game may not exist or, if it does, is of different character from that generally supposed, and that symmetry in the solution of bargaining games cannot be supported on the notion of "rational expectations." The point of departure for this argument is the operational identification of irrational expectations. 29 pp. Published in The Review of Economics and Statistics, Aug. 1959. Incorporated in The Strategy of Conflict, Harvard University Press, Cambridge, Mass., 1960.

SCSCAuthor(s)Title & AbstractPublication No.
and Date

Schelling, T. C.

THE RECIPROCAL FEAR OF SURPRISE ATTACK

P-1342

April 16, 1958

An analysis of the idea that initial probabilities of surprise attack become larger through a "multiplier" effect as a result of the compounding of each person's fear of what the other fears. 28 pp. Illus. Presented before the Econometric Society at Chicago Ill., Dec. 27, 1958. Abstract of this paper published in Econometrica, July 1959.

Schelling, T. C.

PROSPECTUS FOR A REORIENTATION OF GAME THEORY

P-1491

Sept. 17, 1958

An attempt to extend the scope of game theory using the zero-sum game as a limiting case rather than as a point of departure. Identifies the perceptual and suggestive element in the formation of mutually consistent expectations and identifies some of the basic "moves" that may occur in actual games of strategy and the structural elements on which the moves depend. 125 pp. Illus. Published in The Journal of Conflict Resolutions, Sept. 1958. Incorporated in The Strategy of Conflict Harvard University Press, Cambridge, Mass., 1960.

Schelling, T. C.

SURPRISE ATTACK AND DISARMAMENT

P-1574

Dec. 10, 1958

Examines the relation of surprise-attack schemes to the general idea of "disarmament" and to the stability of a situation of mutual deterrence. Discusses the problem of safeguards against war, and the question of whether successful surprise attack schemes will leave us incapable of deterring anything but a massive attack. 50 pp. Presented before the Conference on NATO Strategy for the Security of the West, Princeton University, Jan. 15, 1959.

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Schelling, T. C.	RANDOMIZATION OF THREATS AND PROMISES An investigation of randomization in non-zero-sum games. Finds rationale for a "fractional threat," and also considers whether the tactic of "unconditional commitment" can advantageously be made less than certain. 13 pp. Illus. Incorporated in <u>The Strategy of Conflict</u> , Harvard University Press, Cambridge, Mass., 1960.	P-1716 June 5, 1959
Schelling, T. C.	NUCLEAR WEAPONS AND LIMITED WAR Part of an investigation on the objectives of the general and limited war forces of the U.S. and on the relationship of these objectives to force composition. The nature and meaning of "limit" in limited war is investigated, with emphasis on the limit inherent in distinguishing between conventional and nuclear weapons. 15 pp. Also published as P-1620. Incorporated in <u>The Strategy of Conflict</u> , Harvard University Press, Cambridge, Mass., 1960.	RM-2510 (AD 234652) Dec. 29, 1959
Schelling, T. C.	THE ROLE OF THEORY IN THE STUDY OF CONFLICT Part of the same investigation as RM-2510. Develops the hypothesis that political-military strategy on the international level is an underdeveloped science. The author believes that requisite to the study of international relations is a systematic theory of conflict encompassing such concepts as deterrence, "brinkmanship," "arms race," and "accidental war." Shows the need for such a theory, suggests some of the ingredients and characteristics of the theory, and examines the way in which it might be applied to practical problems of international affairs. 52 pp.	RM-2515 (AD 234653) Jan. 13, 1960

SC-SH

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Scitovsky, T. and E. S. Shaw & L. Tarshis	MOBILIZING RESOURCES FOR WAR: THE ECONOMIC ALTERNATIVES McGraw-Hill Book Company, Inc., New York, 284 pp. \$4.50. An approach to problems placed on the nation- al economy by full or partial mobilization. Three programs of economic control to ensure the transfer of resources to mobilization without inflation are examined, together with alternatives. Includes projections of em- ployment, national income, and national war potential for 1951-1956 and a critical an- alysis of World War II control techniques.	Book, 1951
Shabad, T.	THE SOVIET CONCEPT OF ECONOMIC REGIONALIZA- TION An attempt to clarify the Soviet concept of economic regionalization. Discusses the criteria shaping the economic regions in the USSR, and the extent to which the tools of Western regional analysis are applicable to the Soviet concept and practice. 12 pp. Pre- sented before the International Geographic Congress at Washington, D. C., Aug. 1952. Published in <u>Geographical Review</u> , April 1953.	P-269 Feb. 19, 1952
Shabad, T.	POPULATION OF MAJOR CITIES OF THE USSR Presents lists of USSR cities with estimated 1950 populations. A discussion of method- ology is presented, followed by a basic list, alphabetically arranged, containing such data as population estimate, margin of error, and administrative location, and a supplementary list, arranged by size groups. 25 pp.	RM-815-1 (ATI 168594) June 10, 1952
Shapiro, M. B. with W. M. Jones & N. Z. Shapiro	THE FLIGHT OPERATIONS PLANNER For abstract, see same title under Jones.	RM-2415 (AD 227738) July 16, 1959
Shapiro, M. B. with W. M. Jones	THE FLIGHT OPERATIONS PLANNER, ADDENDUM TO RM-2415 For abstract, see same title under Jones.	RM-2525 (AD 237155) Feb. 9, 1960

SH-SI

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Shapiro, N. Z. with W. M. Jones & M. B. Shapiro	THE FLIGHT OPERATIONS PLANNER For abstract, see same title under Jones.	RM-2415 (AD 227738) July 16, 1959
Shaw, E. S. with T. Scitovsky & L. Tarshis	MOBILIZING RESOURCES FOR WAR: THE ECONOMIC ALTERNATIVES For abstract, see same title under Scitovsky.	Book, 1951
Shephard, R. with K. J. Arrow, <u>et al.</u>	A TIME SERIES ANALYSIS OF INTERINDUSTRY DEMANDS For abstract, see same title under Arrow.	Book, 1959
Simon, H. A.	A FORMAL THEORY OF THE EMPLOYMENT RELATION- SHIP A generalized model which incorporates rational grounds for the choice by two individuals between an employment contract and a sales contract. 18 pp. Illus. Published in <u>Econometrica</u> , July 1951. Presented before the Cowles Commission at Chicago, Oct. 13-14, 1950.	P-204 Dec. 7, 1950
Simon, H. A.	A COMPARISON OF ORGANIZATION THEORIES Suggests a framework that permits a comparison of the economist's theory of the firm and the administrator's theory of organizational equilibrium. 21 pp. Published in <u>The Review of Economic Studies</u> , Jan. 1953. Presented before the Cowles Commission at Chicago, Ill., Oct. 13, 1951.	P-219 June 19, 1951
Simon, H. A.	ON THE APPLICATION OF SERVOMECHANISM THEORY IN THE STUDY OF PRODUCTION CONTROL--A STUDY IN THE THEORY OF ORGANIZATION An application of the servomechanism theory to the analysis and design of decisional procedures for controlling the rate of manufacturing activity. 30 pp. Illus. Published in <u>Econometrica</u> , April 1952. Presented before a Seminar on Communication Theory at Columbia University in New York, April 10, 1951.	P-234 Aug. 15, 1951

SI-SN

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Simon, H. A.	A BEHAVIORAL MODEL OF RATIONAL CHOICE A description of a model which defines rational choice by organisms of limited computational ability. 16 pp. Published in <u>The Quarterly Journal of Economics</u> , Feb. 1955.	P-365 Jan. 20, 1953
Skogstad, A. and A. Kaplan & M. A. Girshick	THE PREDICTION OF SOCIAL AND TECHNOLOGICAL EVENTS A report on a pilot study of the prediction of social and technological events. From questioning 26 predictors, certain criteria were estimated: the success of such prediction, its possible improvement, and the prior appraisal of the success to be expected. 31 pp. Published in the <u>Public Opinion Quarterly</u> , Spring, 1950.	P-93 April 1, 1949
Skogstad, A. L.	PETROLEUM INDUSTRY OF GERMANY DURING THE WAR A study of the major factors contributing to the success of the Allies in disrupting the German petroleum industry in 1944. Covers the principal characteristics of that industry, German measures to ensure an adequate supply, industrial recuperability, plant vulnerability to bombing, and methods used by the Allies to stop production. 43 pp.	RM-428 (ATI 210651) April 26, 1950
Skogstad, A. with A. A. Alchian & N. Hanunian	ESTIMATING OUTPUT FROM FLOOR SPACE: FEASIBILITY For abstract, see same title under Alchian.	RM-563 (ATI 210689) Mar. 13, 1951
Snow, R. N. with H.M.Markowitz	THE PROBLEM OF DEFINING AND MEASURING RAIL-ROAD CAPACITY For abstract, see same title under Markowitz.	RM-951 (ATI 210765) Sept. 23, 1952

SO-ST

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Author(s)

Title & Abstract

Publication No.
and Date

Solow, R. M.
with
R. Dorfman &
P. A. Samuelson

LINEAR PROGRAMMING AND ECONOMIC ANALYSIS
For abstract, see same title under
Dorfman.

1958

Stout, D.

JAPAN'S ECONOMIC FUTURE IN ASIA

P-993
Dec. 14, 1956

Covers the interaction of Japanese economic activity with the future economic trends in Asia, and the objectives of Japan simultaneously to eliminate its dollar import balance, to pay reparations, and to expand trade with Asia. The implications of these findings are examined in relation to U.S. foreign policy. 111 pp. Tables.

TA-TUTA-TU

<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Tarshis, L. with T. Scitovsky & E. S. Shaw	MOBILIZING RESOURCES FOR WAR: THE ECONOMIC ALTERNATIVES For abstract, see same title under Scitovsky.	Book, 1951
Taylor, W. W.	COLD WATER ON SALT WATER A summary of a survey on the technology and economics of water supply. Delineates the problems of water supply and indicates the important areas of research. 22 pp.	P-546 July 16, 1954
Taylor, W. W.	THE CAUSES OF SYSTEMATIC ERROR IN THE COST ESTIMATES OF PUBLIC WORKS BY R. GIGUET AND G. MORLAT (PARIS, 1952) Discusses two main reasons for underestima- tion of construction costs: (1) the prob- ability density function of cost estimates is not symmetric, and estimates tend to be based on model rather than mean values; (2) as projects are chosen in part by their estimated costs, a bias results toward those projects whose costs have been underestimated. 29 pp. Illus.	T-76 Aug. 27, 1957
Turgeon, E. L. with A. Bergson	PRICES OF IRON AND STEEL PRODUCTS IN THE SOVIET UNION, 1928-1950: A SUMMARY REPORT For abstract, see same title under Bergson.	RM-802 (ATI 210411) March 26, 1952
Turgeon, E. L.	PRICES OF METALWORKING EQUIPMENT IN THE SOVIET UNION, 1928-1951 Calculates the index numbers of metalworking equipment prices in the USSR from 1928-1951. 76 pp. Tables.	RM-1112 (ATI 210790) June 30, 1953
Turgeon, E. L.	PRICES OF INDUSTRIAL ELECTRIC POWER IN THE SOVIET UNION, 1928 to 1950 Data on the index numbers of electric energy prices used by Soviet industry from 1928 to 1950. Part of a study to calculate the dollar equivalent of current Russian industrial and military output. 62 pp. Tables.	RM-1244 (AD 90497) April 27, 1954
Turgeon, E. L. with A. Bergson	PRICES OF ORDINARY ROLLED STEEL IN THE SOVIET UNION, 1928-1950 For abstract, see same title under Bergson.	RM-767-1 (AD 96723) Dec. 10, 1954
Turgeon, E. L. with A. Bergson	PRICES OF QUALITY ROLLED STEEL IN THE SOVIET UNION, 1928-1950 For abstract, see same title under Bergson.	RM-778-1 (AD 96722) Feb. 1, 1955

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Turgeon, E. L.	PRICES OF COAL AND PEAT IN THE SOVIET UNION, 1928-1950 Considers coal and peat prices in the Soviet Union from 1928 to 1950. Part of a broader study to provide a basis for calculating the dollar equivalent of current Russian industrial and military output. 82 pp. Tables.	RM-1423 (AD 90508) Feb. 2, 1955
Turgeon, E. L. and R. Bernaut & A. Bergson	PRICES OF MISCELLANEOUS BASIC INDUSTRIAL PRODUCTS, USSR, 1928-1950 A study of wholesale prices of miscellaneous basic industrial products in the USSR from 1928 to 1950. Part of a broader investigation to provide a basis for estimating rates of change in the output of various sectors of the Soviet economy. 147 pp. Tables.	RM-1482 (AD 90549) May 9, 1955
Turgeon, E. L. and A. Bergson	PRICES OF NONFERROUS METALS IN THE SOVIET UNION, 1928 to 1950 A study to determine an index number of nonferrous metal prices in the Soviet Union from 1928-1950. Only nonferrous metals for industrial use are considered. 96 pp. Tables.	RM-1030-1 (AD 96717) June 9, 1955
Turgeon, E. L. with A. Bergson & R. Bernaut	BASIC INDUSTRIAL PRICES IN THE USSR, 1928-1950: TWENTY-FIVE BRANCH SERIES AND THEIR AGGREGATION For abstract, see same title under Bergson.	RM-1522 (AD 87546) Aug. 1, 1955
Turgeon, E. L. with A. Bergson & R. Bernaut	PRICES OF BASIC INDUSTRIAL PRODUCTS IN THE USSR, 1928-1950 For abstract, see same title under Bergson.	P-789 Jan. 12, 1956
Turgeon, E. L. and A. Bergson	PRICES OF BASIC INDUSTRIAL GOODS IN THE USSR, 1950 TO 1956: A PRELIMINARY REPORT A continuation of P-789. Extends wholesale price movements for basic industrial products in the USSR from 1950 to 1956. Compiles index numbers of wholesale prices and for basic industrial goods generally. The period studied represents the first extended period of general decline of industrial prices since the inauguration of the Soviet five-year plans. 86 pp. Tables.	RM-1919 (AD 144262) June 12, 1957

TW

Author(s)

Twanmo, Chang

Title & Abstract

PRODUCTION OF FOOD CROPS IN MAINLAND CHINA:
PREWAR AND POSTWAR

Part of a series of studies concerned with agriculture production in China to determine the accuracy of the output data released by the Communists since their seizure of the Chinese mainland in 1949. The statistics are given mainly in terms of the Chinese system of weights and measures. 84 pp. Illus.

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Publication No.
and Date

RM-1659
(AD 95138)
March 22, 1956

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Author(s)

Title & Abstract

Publication No.
and Date

Vogely, W. A.

**A CASE STUDY IN THE MEASUREMENT OF
GOVERNMENT OUTPUT**

RM-1934-RC
July 9, 1957

An examination of the Bureau of Land Management, U.S. Department of Interior, that seeks to identify Bureau outputs and to value them, wherever possible, in terms directly commensurate with inputs. Minerals, land, grazing, and forestry programs are examined for this purpose and to appraise their efficiency. The general aim throughout is to demonstrate the feasibility of such case studies. Methodological implications are stressed. 185 pp. Illus.

WA-WI

WA-WI

<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Wainstein, E. S.	A COMPARISON OF SOVIET AND UNITED STATES RETAIL FOOD PRICES FOR 1950 Part of a larger study to determine the dollar equivalent of current Soviet indus- trial and military output. Compares USSR and U.S. retail food prices for 1950. 46 pp. Tables.	RM-1294 (AD 90502) July 13, 1954
Wainstein, E. S.	A COMPARISON OF SOVIET AND UNITED STATES RETAIL PRICES FOR MANUFACTURED GOODS AND SERVICES IN 1950 Part of a broader investigation expected to provide a basis for calculating the dollar equivalent of current Soviet industrial and military output. The present study compares Soviet and U.S. retail prices for manufactured goods and services in 1950. 111 pp. Tables.	RM-1606 (AD 90551) Jan. 5, 1956
Wainstein, E. S. with N. M. Kaplan	A COMPARISON OF SOVIET AND AMERICAN RETAIL PRICES IN 1950 For abstract, see same title under Kaplan.	RM-1692-1 (AD 100024) Oct. 3, 1956
Wainstein, E. S. with N. M. Kaplan	AN ADDENDUM TO PREVIOUS USSR-U.S. RETAIL PRICE COMPARISONS For abstract, see same title under Kaplan.	RM-1906 (AD 123547) May 13, 1957
White, W. L. with N. M. Kaplan	A COMPARISON OF 1950 WHOLESALE PRICES IN SOVIET AND AMERICAN INDUSTRY For abstract, see same title under Kaplan.	RM-1443 (AD 91181) May 1, 1955
Winsten, C. B. with M. Beckmann, et al.	THE ALLOCATION OF SWITCHING WORK IN A SYSTEM OF CLASSIFICATION YARDS For abstract, see same title under Beckmann.	P-448 Dec. 5, 1953
Winsten, C. B. with M. Beckmann & C. B. McGuire	STUDIES IN THE ECONOMICS OF TRANSPORTATION For abstract, see same title under Beckmann.	RM-1488 (AD 90419) May 12, 1955

WIWI

<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Winter, S., Jr. with R. R. Nelson	WEATHER INFORMATION AND ECONOMIC DECISIONS-- A PRELIMINARY REPORT For abstract, see same title under Nelson.	RM-2620-NASA Aug. 1, 1960
Winter, S., Jr.	ECONOMIC NATURAL SELECTION AND THE THEORY OF THE FIRM Discusses the relationship between analysis of economic natural selection and direct theorizing about firm behavior. Concludes that those searching for a better theory of the firm will benefit from using the guidance that economic natural selection considera- tions offer. 21 pp. Presented before the Econometric Society, Dec. 28-30, 1960.	P-2167 Dec. 19, 1960
Winter, S., Jr.	A BOUNDEDNESS PROPERTY OF THE CLOSED LINEAR MODEL OF PRODUCTION A proof of the boundedness property of in- finite feasible sequences in closed, convex linear technologies. Proves the proposition that the fact that unbalanced growth paths are feasible does not negate the special sig- nificance of the maximal rate of balanced growth. 9 pp.	P-2384 July 28, 1961
Winter, S., Jr.	ECONOMIC RECOVERY FROM THE EFFECTS OF THERMONUCLEAR WAR An outline of the problem of economic recov- ery from the effects of thermonuclear war. Discusses the range of possibilities occurring in the war, its three phases of recovery, and the capacity output needed in various indus- tries to meet austere consumption requirements. 31 pp. Illus. Published in <u>Civil Defense--1961,</u> <u>Hearings before a Subcommittee of the Committee</u> <u>on Government Operations, House of Representa-</u> <u>tives, Eighty-seventh Congress, First Session,</u> <u>August 1-4, 7-9, 1961.</u> Presented before the Military Operations Subcommittee, Washington, D.C., Aug. 7-9, 1961.	P-2416 Aug. 22, 1961
Winter, S., Jr. with B. F. Massell	POSTATTACK DAMAGE ASSESSMENT: A CONCEPTUAL ANALYSIS For abstract, see same title under Massell.	RM-2844-PR Nov. 1961

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Author(s)

Title & Abstract

Publication No.
and Date

Wohlstetter, A.J. SYSTEMS ANALYSIS VERSUS SYSTEMS DESIGN

P-1530
Oct. 29, 1958

An examination of the design and formulation of an economic systems analysis of defense problems. Includes a discussion of systems analysis vs. models, an Air Force example, the objectives and constraints in the design of systems studies, the enemy's objections and agreements, the modest value of mutually unsatisfactory strategies, uncertainty and the design of systems studies, and systems design vs. systems analysis. 64 pp. Illus.

Wohlstetter, A. J. THE DELICATE BALANCE OF TERROR

P-1472
Nov. 6, 1958

A criticism of the popular view that deterrence of central war is easy. The inadequacy as well as the necessity of deterrence, the problem of accidental outbreak of war, and an aspect of disarmament are discussed. 45 pp. Published in Foreign Affairs, January 1959.

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Wolf, C., Jr.	ECONOMIC DEVELOPMENT AND MUTUAL SECURITY: SOME PROBLEMS OF U.S. FOREIGN ASSISTANCE PROGRAMS IN SOUTHEAST ASIA Part I of an investigation concerned with U.S. foreign assistance programs in Southeast Asia. Examines an experimental model of the relation- ship between political vulnerability and economic aspirations, the level of living, and economic expectations. Applications of this model are shown. 77 pp. Tables.	RM-1778 Aug. 14, 1956
Wolf, C., Jr.	SOVIET ECONOMIC AID IN SOUTHEAST ASIA: THREAT OR WINDFALL? A discourse on the new Soviet diplomacy in Asia, that of extending economic aid to countries who qualify as nonallied with the U.S. Examines Soviet aid in Southeast Asia as a threat to U.S. interests, whether or not offers of aid by the Bloc should be matched by U.S. counteroffers of more aid on more favorable terms, and the effect of Soviet aid to nonallied countries. 15 pp. Tables. Published in <u>World Politics</u> , Oct. 1957. Presented before a group at the Associated Colleges of Claremont, Claremont, Calif., March 15, 1957.	P-972 Dec. 6, 1956
Wolf, C., Jr.	FACTOR PRODUCTIVITY AND ECONOMIC GROWTH A discussion of the causes of rising factor productivity. Two alternative hypotheses are offered to account for increases in output due to technological change. 16 pp. Table. Published in the <u>Proceedings of the Western Economic Association, 1957</u> . Presented before that Association at the Univ. of Utah, Salt Lake City, Aug. 30, 1957.	P-1136 Aug. 1, 1957
Wolf, C., Jr.	ECONOMIC RESEARCH ON SOUTHEAST ASIA IN THE UNITED STATES: STATUS AND NEEDS Maintains that most economic research on Southeast Asia in the U.S. is and has been descriptive, and that the research ought to be more scientific, or rigorously theoretical, than it has generally been. 5 pp. Presented before the Association for Asian Studies at New York City, April 2, 1958. on the status and needs of Southeast Asian economic research.	P-1340 April 16, 1958

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Wolf, C., Jr.	GAINS FROM TRADE, MATERIALS SUPPLIES, AND ECONOMIC DEVELOPMENT An assessment of the feasibility of the objectives of U.S. economic assistance to underdeveloped countries from the standpoint of their connection with economic development, defined in terms of secularly rising national income. 20 pp. Illus.	P-1583 Jan. 2, 1959
Wolf, C., Jr.	COMPETITION AND COMPLEMENTARITY BETWEEN DEFENSE AND DEVELOPMENT: A PRELIMINARY APPROACH Attempts to determine if defense expenditures are competitive, complementary, or independent of economic growth. Examines indirect effects of defense expenditure and considers other research implications. 14 pp. Tables. Presented before the Econometric Society in Washington, D.C., Dec. 29, 1959. Summary published in <u>Econometrica</u> , July 1960.	P-1743 May 11, 1959
Wolf, C., Jr.	FOREIGN AID: THEORY AND PRACTICE IN SOUTHERN ASIA Princeton University Press, Princeton, N.J. 442 pp. Tables. \$7.50. Discussion of U.S. economic and military aid programs. Consists of two parts: foreign aid from an empirical and historical standpoint (the "Practice"), and foreign aid from the standpoint of the analysis and theory of aid allocation (the "Theory").	1960
Wolf, C., Jr.	ECONOMIC AID RECONSIDERED Comments on Prof. Milton Friedman's article "Foreign Economic Aid: Means and Objectives" (<u>Yale Review</u> , Summer 1958). This paper dispels some of the general arguments against foreign economic aid which are advanced by Friedman. Reasonable objectives of foreign economic aid are suggested as well as its distinct limitations as a means of accomplishing other objectives. 22 pp. Published in <u>Yale Review</u> , Summer 1961.	P-2217 Feb. 14, 1961

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<u>Author(s)</u>	<u>Title & Abstract</u>	<u>Publication No. and Date</u>
Wolf, C., Jr.	ON ASPECTS OF KOREA'S FIVE-YEAR DEVELOPMENT PLAN	P-2288 April 24, 1961
	Written during the author's stay in Korea as economic adviser to the Ministry of Reconstruction, March 3 to April 3, 1961. Comments on particular economic aspects relevant to development planning in Korea. Deals with multi-sector versus key-sector growth and makes suggestions for revising the Economic Development Council's statement on "Methods and Principles." Discusses the author's reactions to the proposed reorganization of economic planning in Korea. 54 pp. Presented before the Ministry of Economic Development, Seoul, Korea, March 28, 1961.	
Wolf, C., Jr.	SOME CONNECTIONS BETWEEN ECONOMIC AND MILITARY ASSISTANCE PROGRAMS IN UNDER-DEVELOPED COUNTRIES	P-2389 Aug. 1, 1961
	Examines three connections between economic and military aid to illustrate the characteristics and problems which the two programs share. The first connection arises from U.S. objectives in undertaking aid programs. The second concerns the role of nonmilitary objectives and criteria in military aid decision making. The third deals with the problem of incentives for recruiting top-quality personnel. 12 pp. Presented before the Military Psychology Division of the American Psychological Assn. at New York, Sept. 5, 1961.	
Wolf, C., Jr.	DEFENSE AND DEVELOPMENT IN LESS-DEVELOPED COUNTRIES	P-2291-1 Sept. 1961
	Studies some of the economic and political side-effects of U.S. military assistance to the defense establishments of underdeveloped countries. The relevance of this research to the revolution in world politics is also discussed. 13 pp. Tables. Presented before the Conference on the Revolution of Our Time, Princeton, N. J., May 31-June 2, 1961. Published in <u>The Revolution in World Politics</u> , M. Kaplan (ed.), Wiley & Sons, New York, 1962.	

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Author(s)

Title & Abstract

Publication No.
and Date

Wolf, C., Jr.
with
B. F. Massell

ECONOMIC DEVELOPMENT AND POSTWAR RECUPERA-
TION: A COMPARISON OF INDUSTRIAL PRIORITIES
For abstract, see same title under Massell.

RM-2952-PR
(AD 270637)
Jan. 1962 &
P-2274-1
April 1962

Wolf, C., Jr.

ECONOMIC PLANNING IN KOREA

Examines national economic planning in Korea from the first effort made in 1954 toward comprehensive planning to the present five-year plan completed in 1961. This plan concentrates on three leading sectors (electric power, agriculture, and "social overhead capital") and emphasizes industrialization with major reliance on private enterprise. 13 pp. Published in Asian Survey, Dec. 1962, and in Korean Affairs, July 1964.

P-2655
Oct. 1962

YE-YO

YE-YO

Author(s)

Title & Abstract

Publication No.
and Date

Yeh, K. C.

ELECTRIC POWER DEVELOPMENT IN MAINLAND
CHINA: PREWAR AND POSTWAR

RM-1821
(AD 123534)
Nov. 27, 1956

Outlines the major trends in the growth of the electric power industry in Mainland China and examines some of the problems in the course of its development. The period covered is 1932 to 1955, with emphasis given to the years 1932 to 1936 and 1949 to 1955. 125 pp. Illus.

Yeh, K. C.

COMMUNIST CHINA'S PETROLEUM SITUATION

RM-3160-PR
(AD 276532)
May 1962

Assembles the available data on Communist China's production, importation, and consumption of petroleum from 1949 to 1960, and assesses its future prospects for increasing domestic production and reducing dependence on the USSR. Concludes that the target for self-sufficiency in 1962 appears to be highly unrealistic and dependence on imports seems likely to continue for some time. 80 pp. Illus.

Youngs, J. W. T.
with
K. J. Arrow

THE DETERMINATION OF MANY-COMMODITY PREFERENCE SCALES BY TWO-COMMODITY COMPARISONS
For abstract, see same title under Arrow.

P-49
Aug. 3, 1948